

FIG. 1

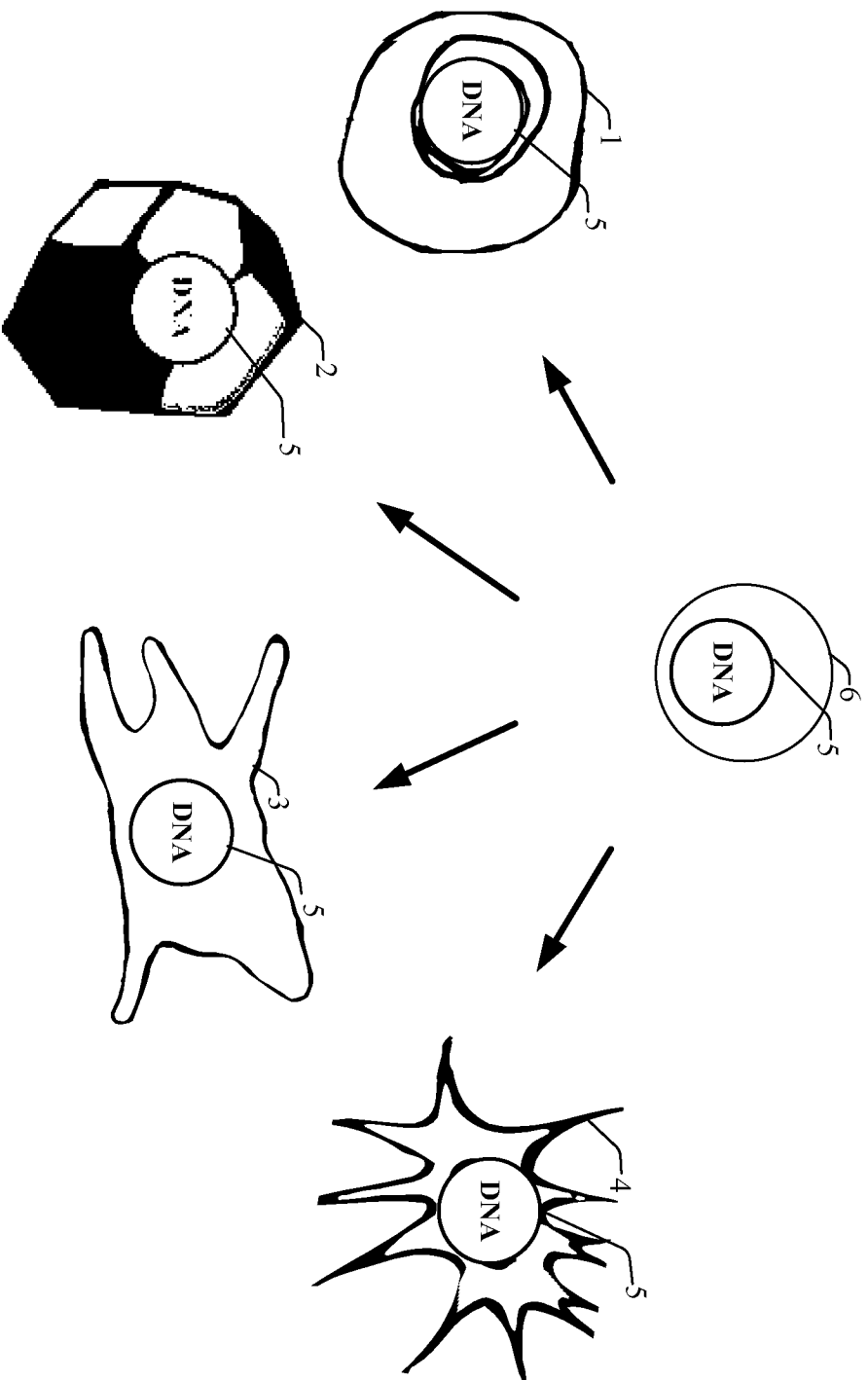


FIG. 2A

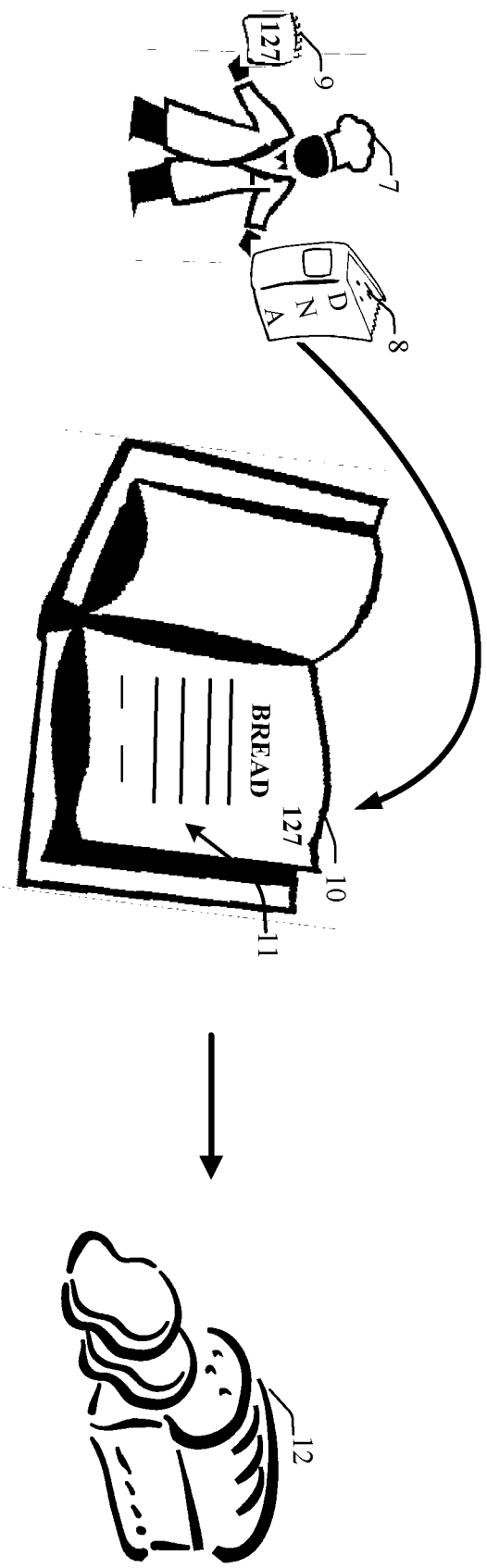


FIG. 2B

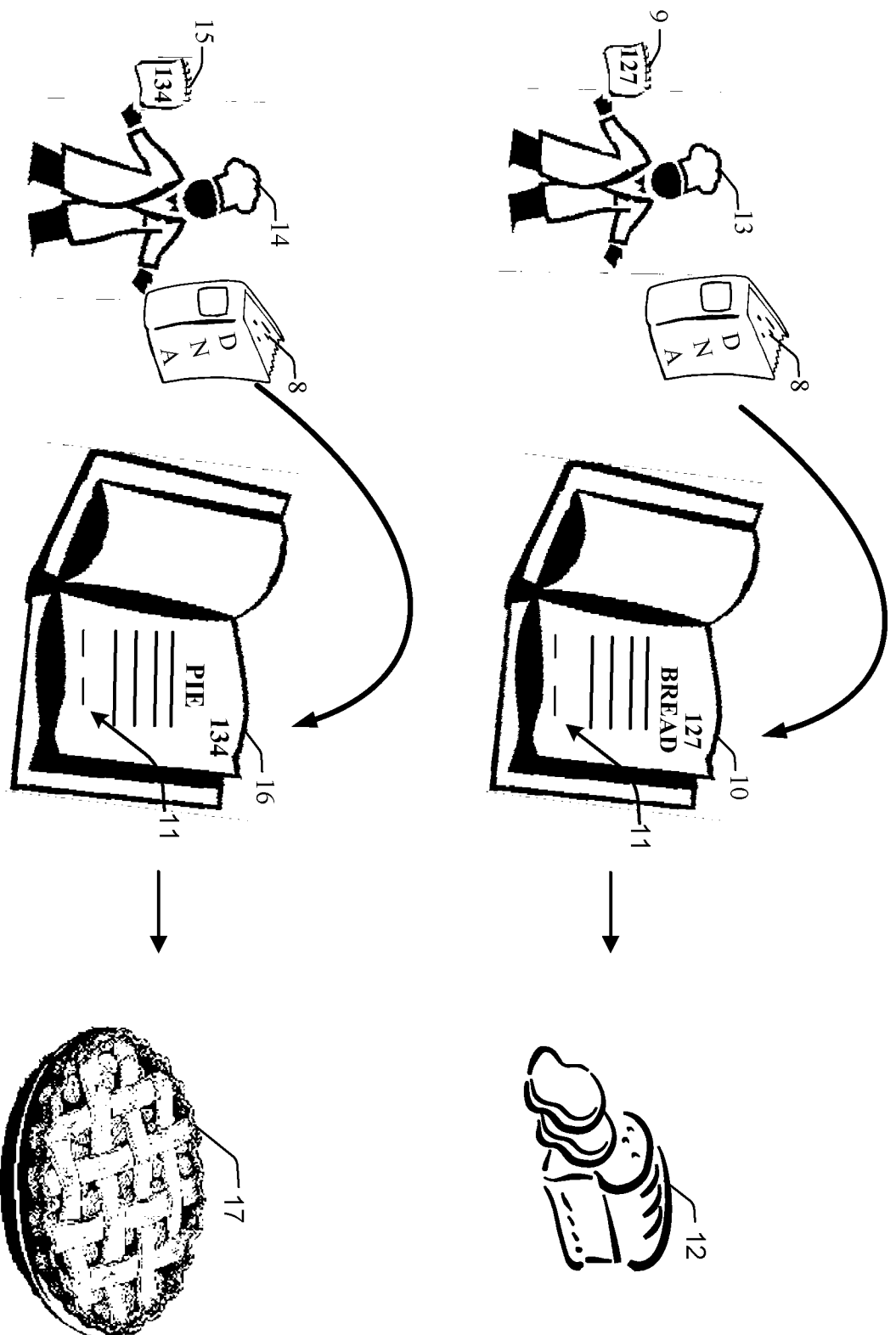


FIG. 3

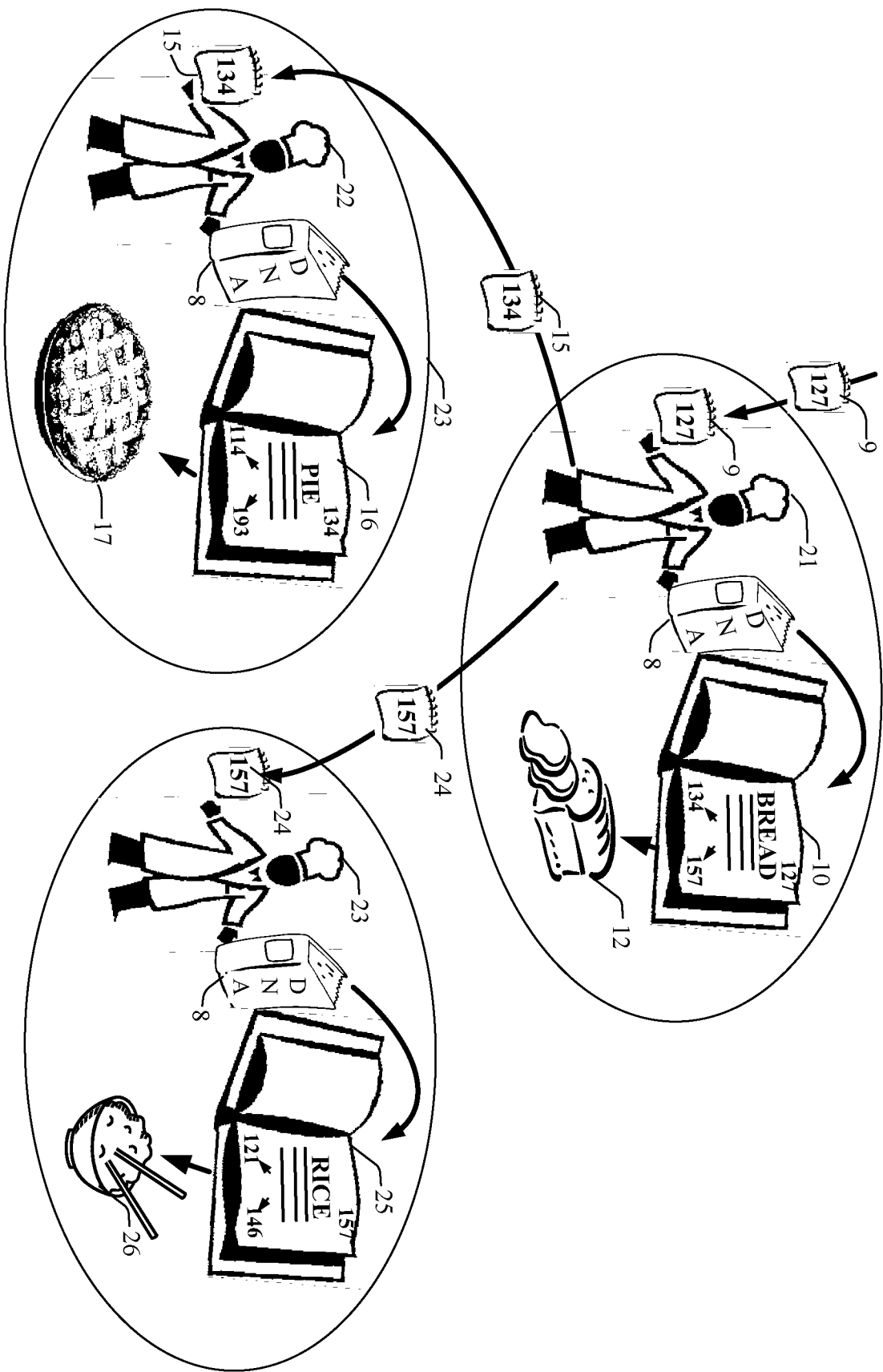


FIG. 4

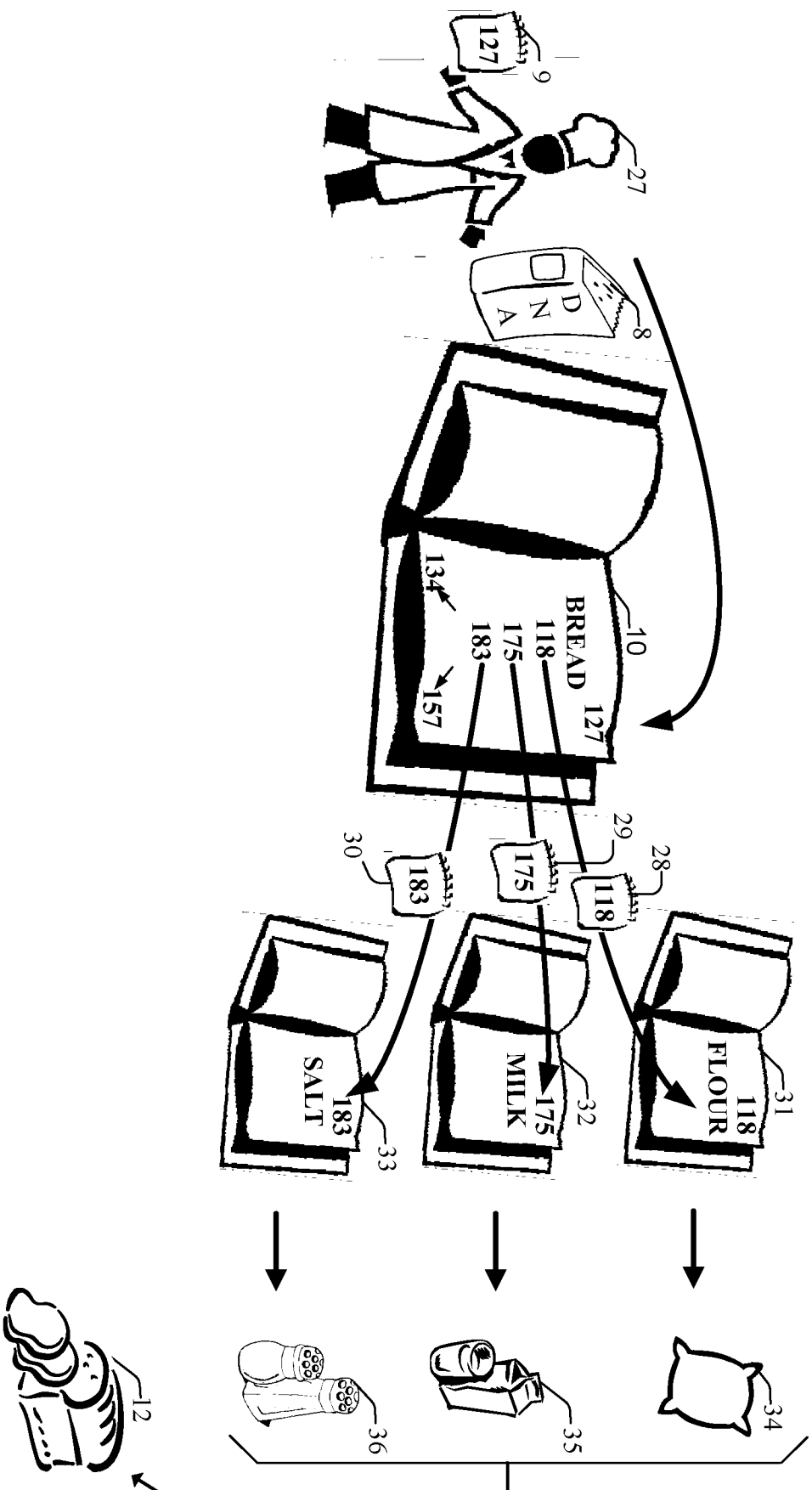
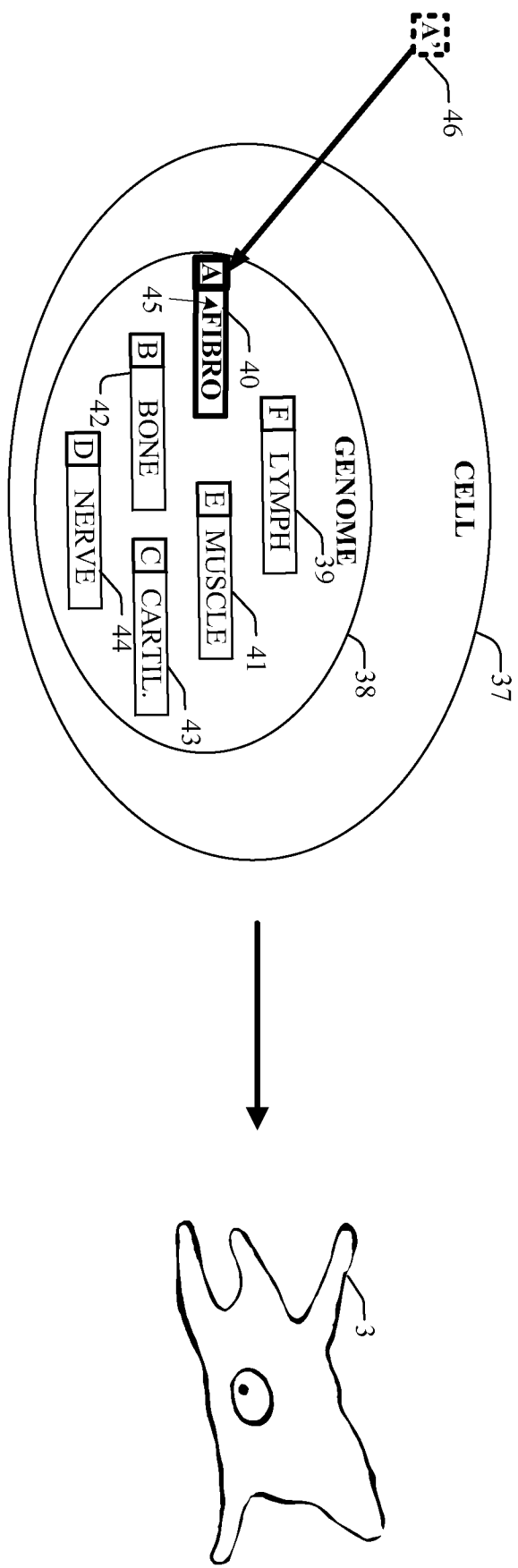


FIG. 5A



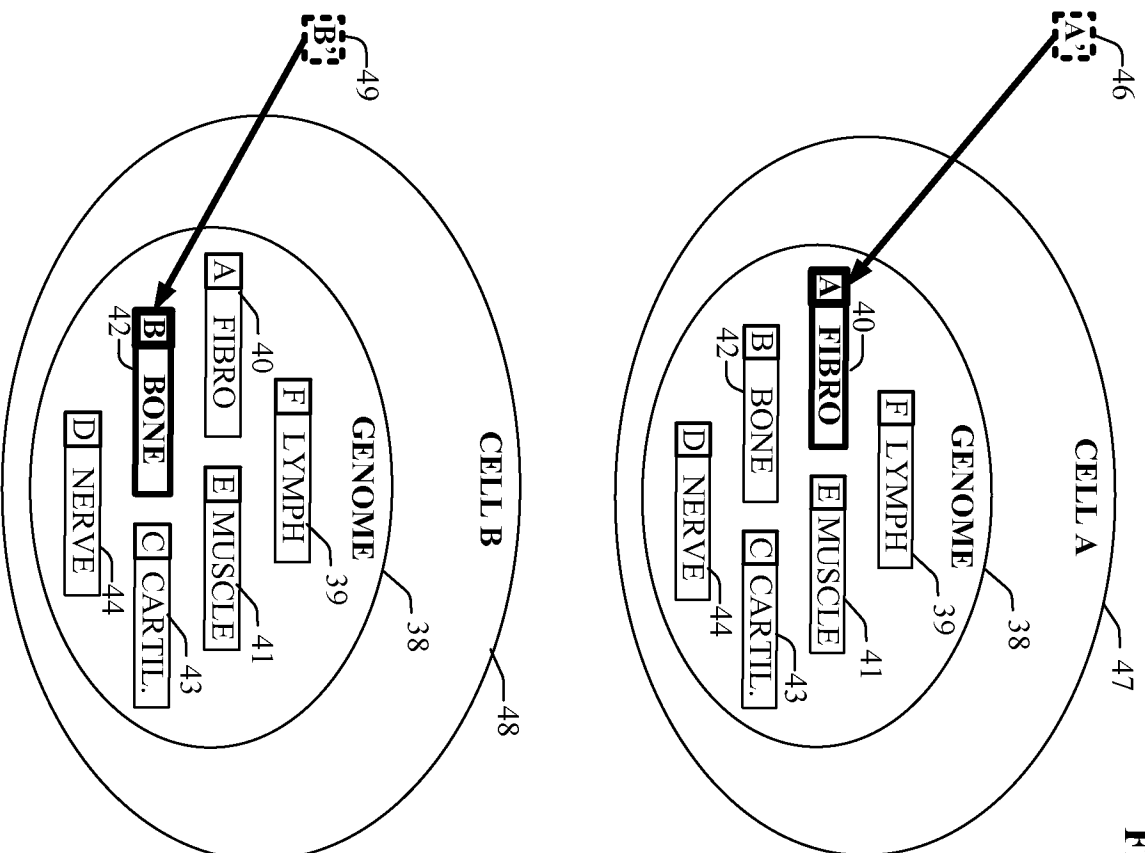


FIG. 5B

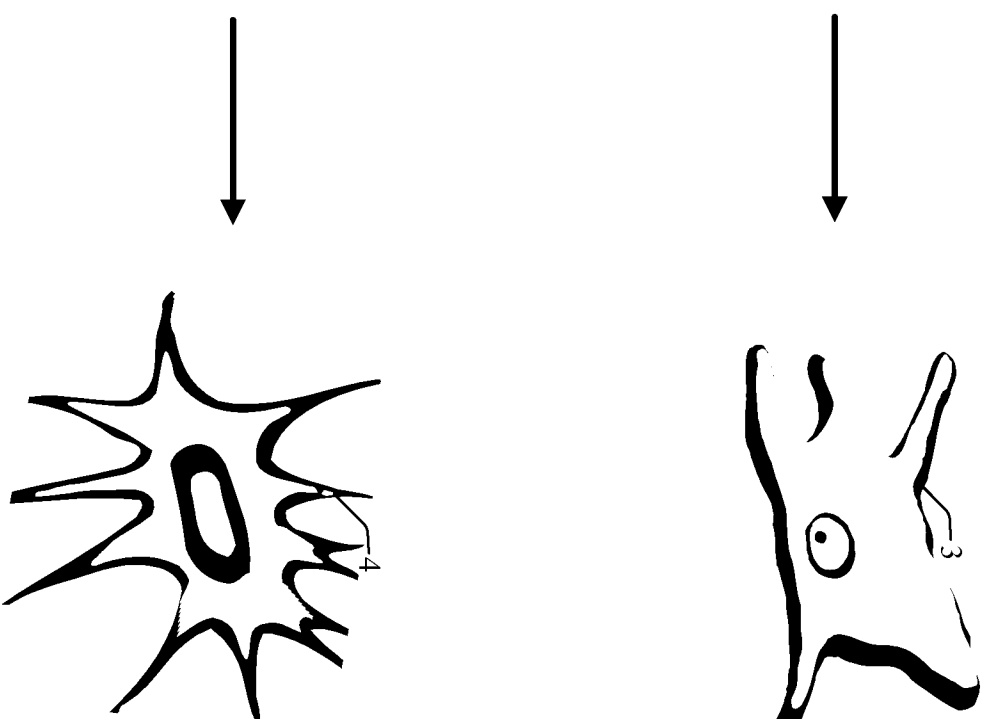
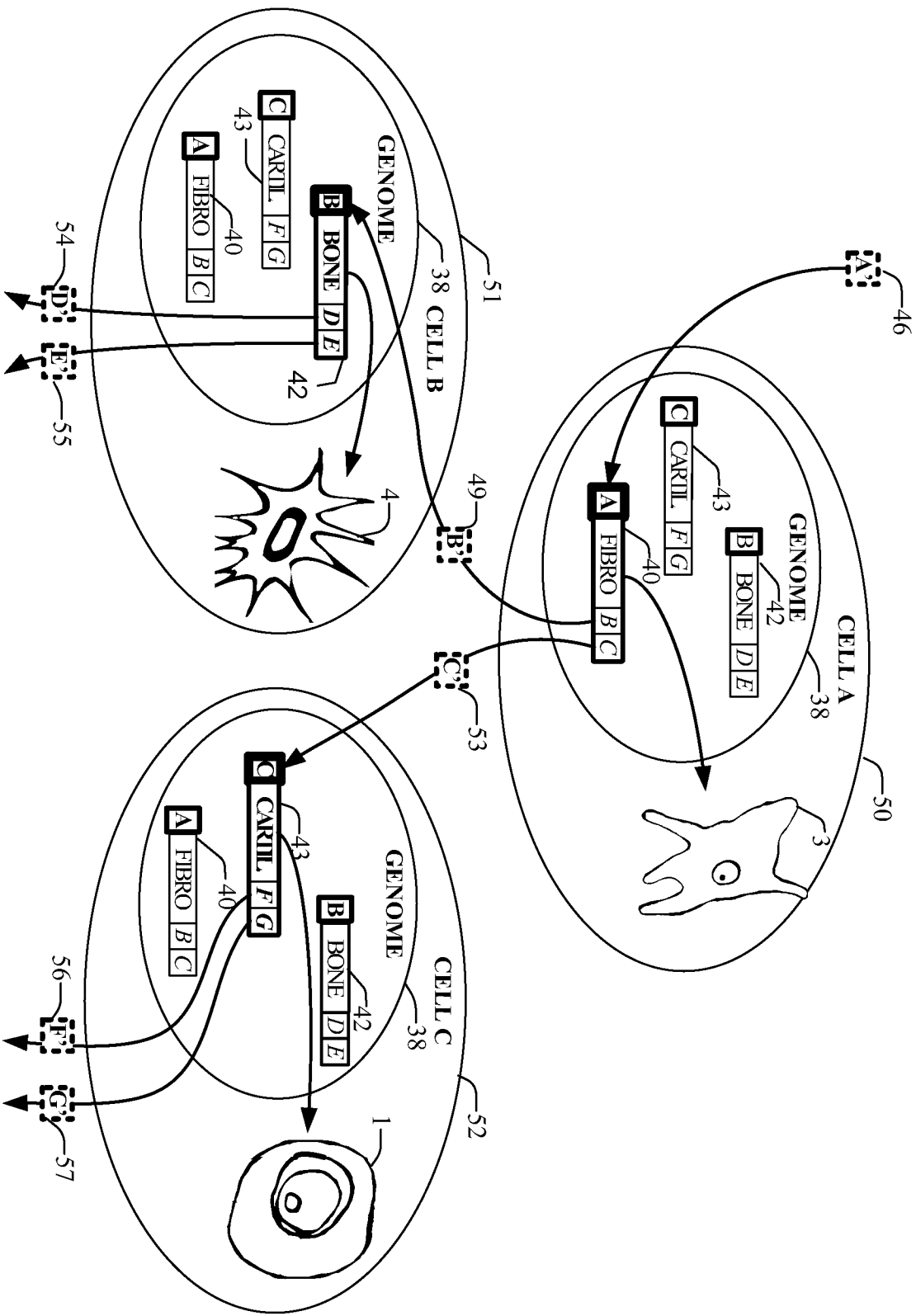


FIG. 6





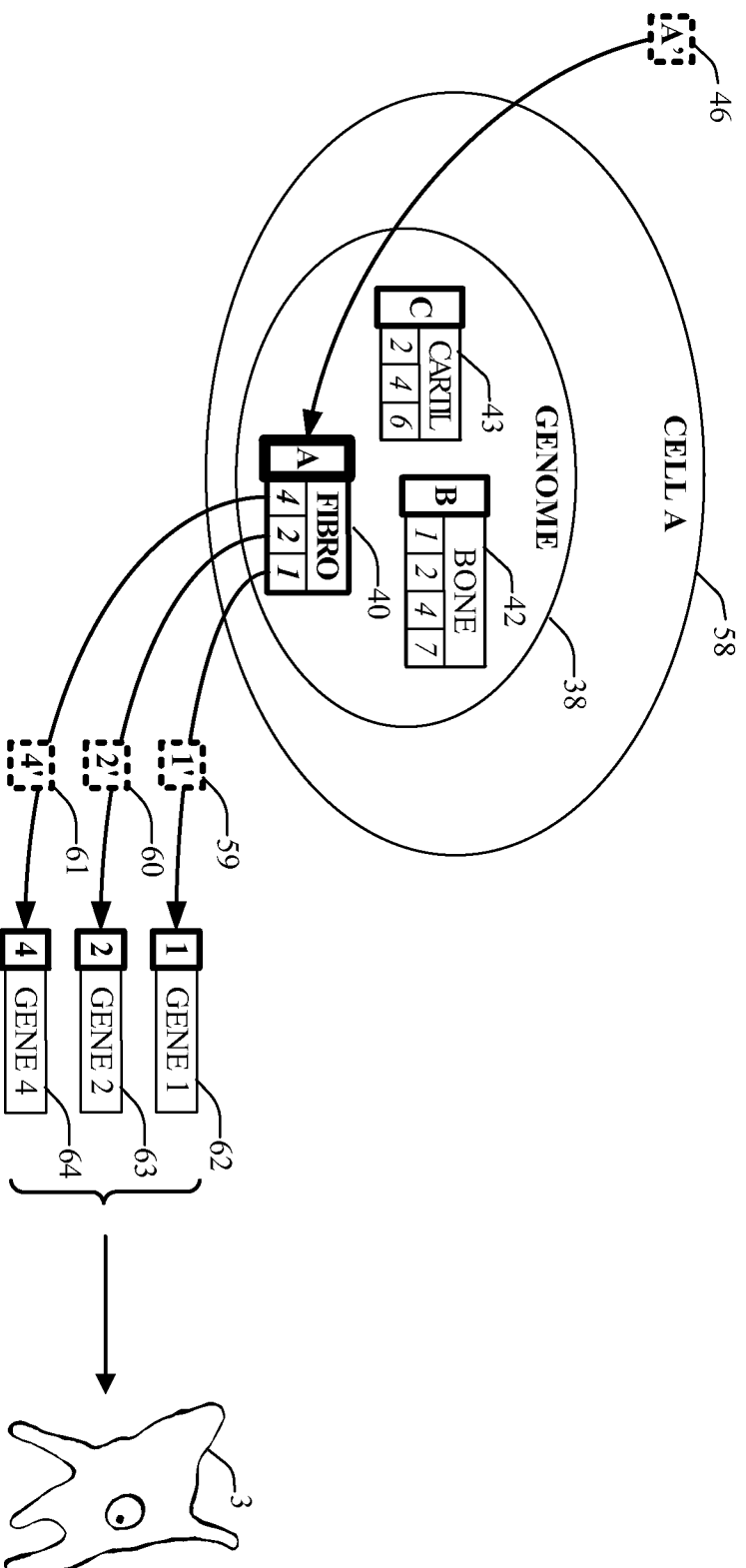
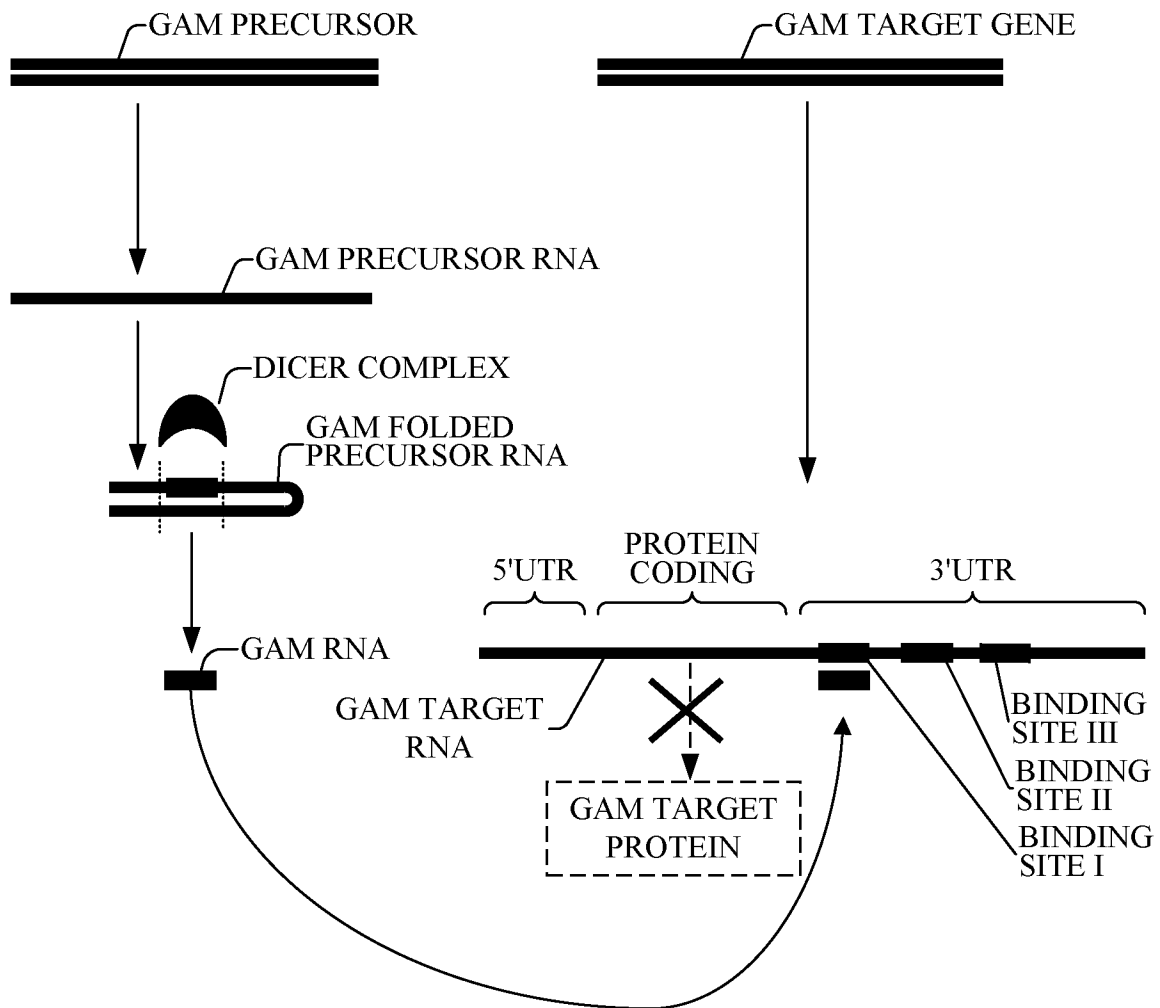
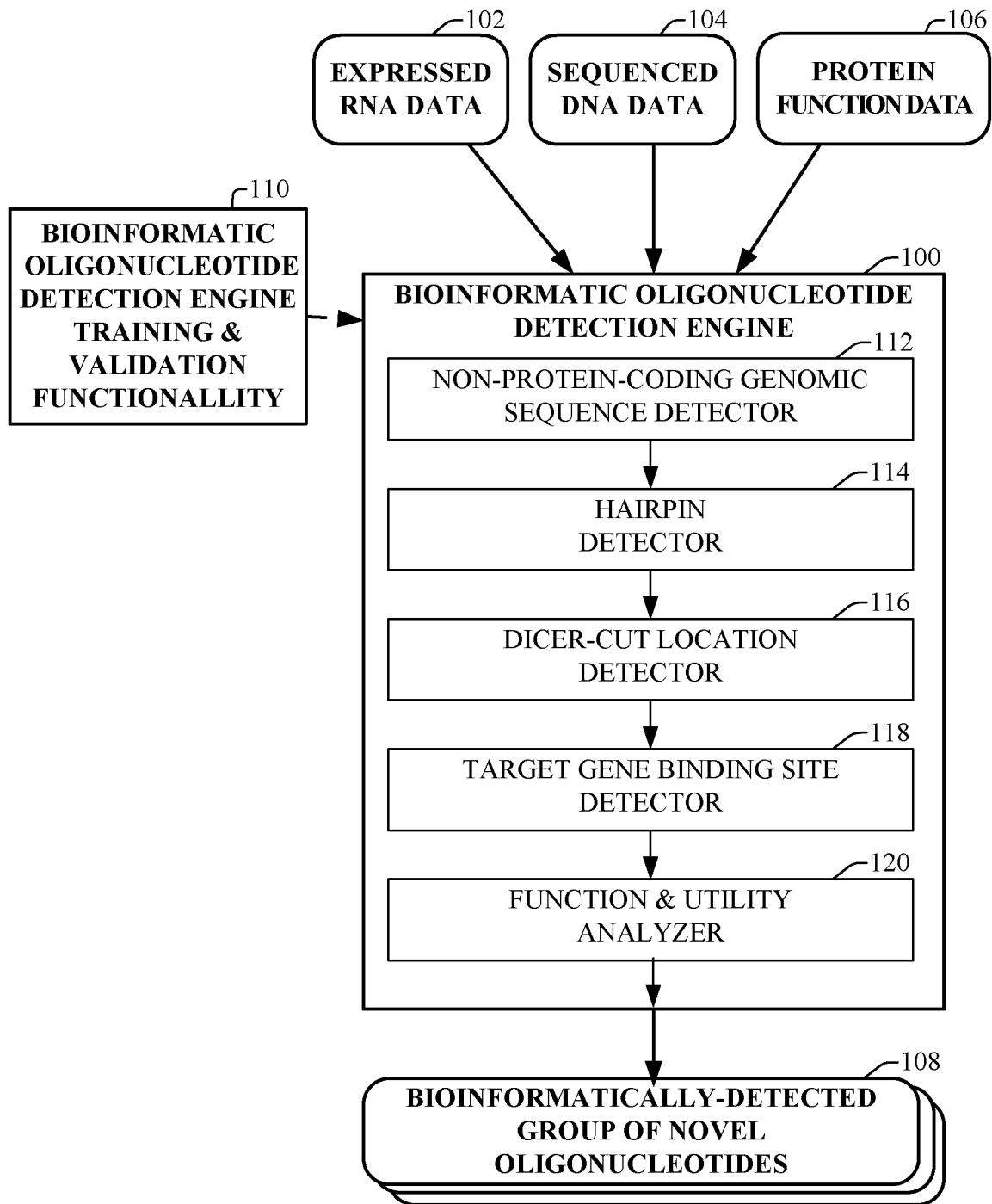


FIG. 7

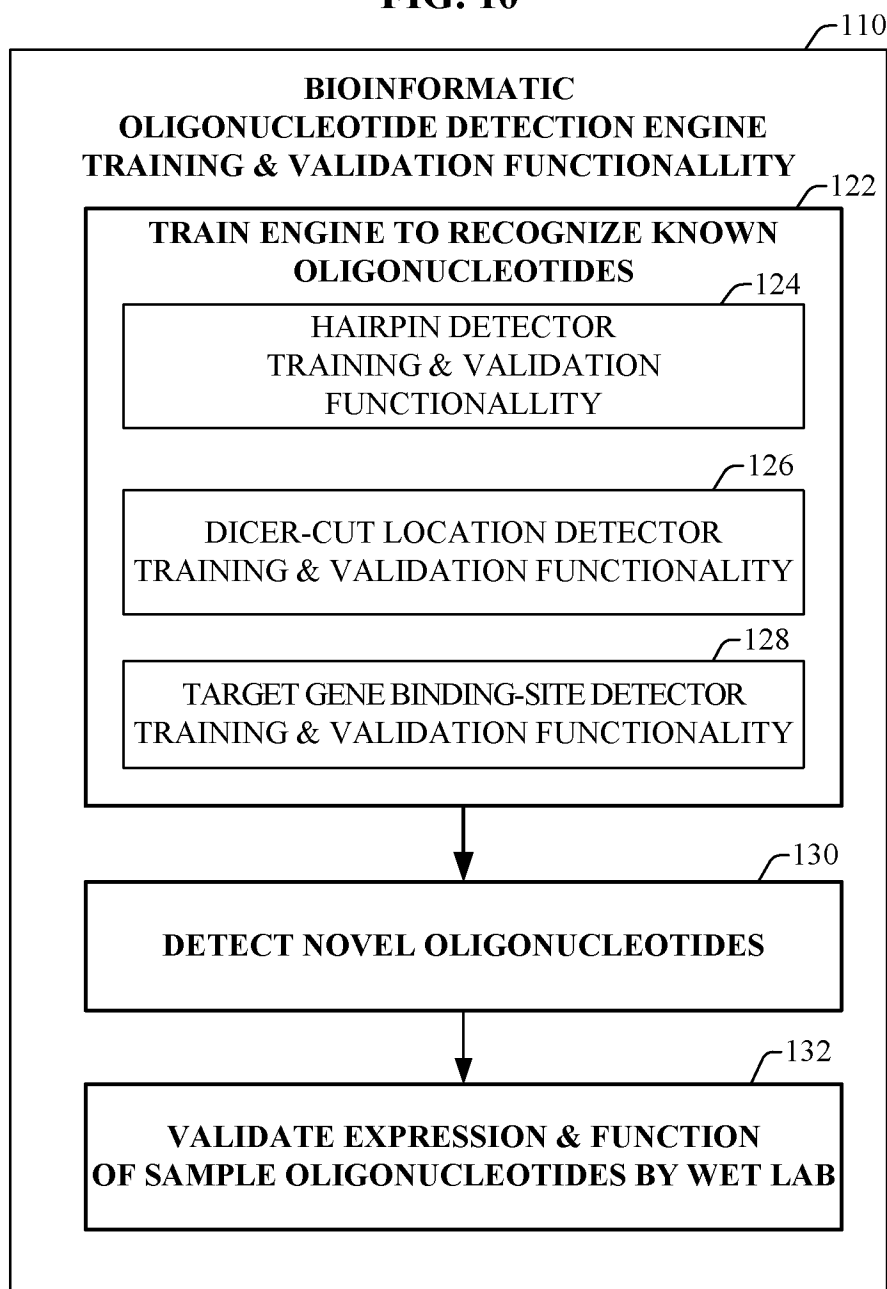
**FIG. 8**



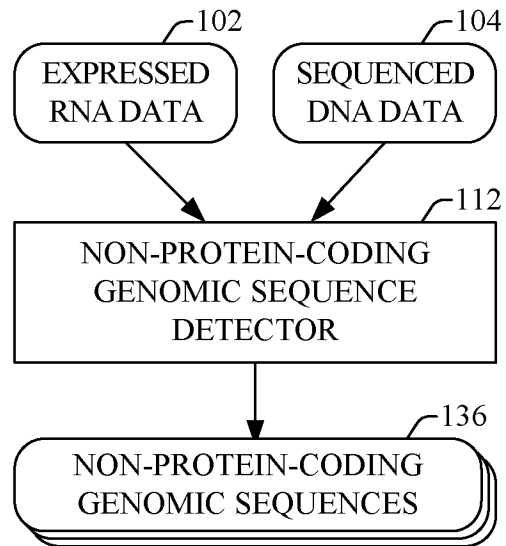
**FIG. 9**



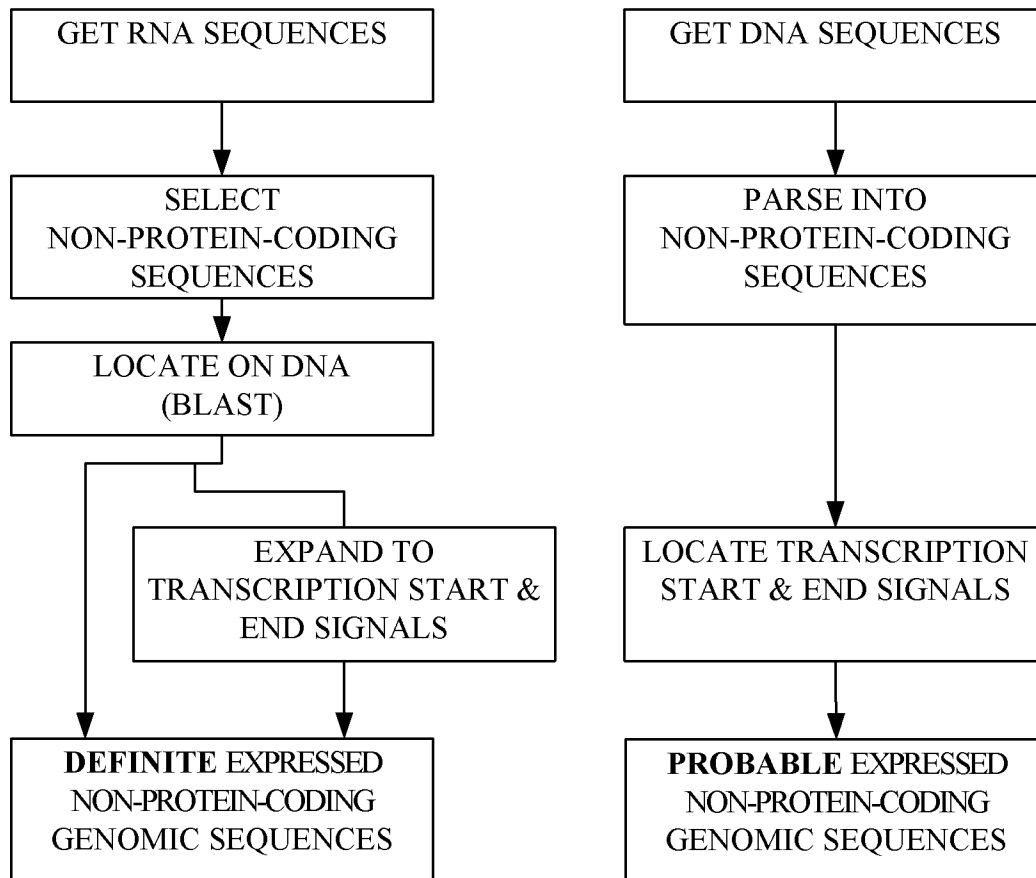
**FIG. 10**



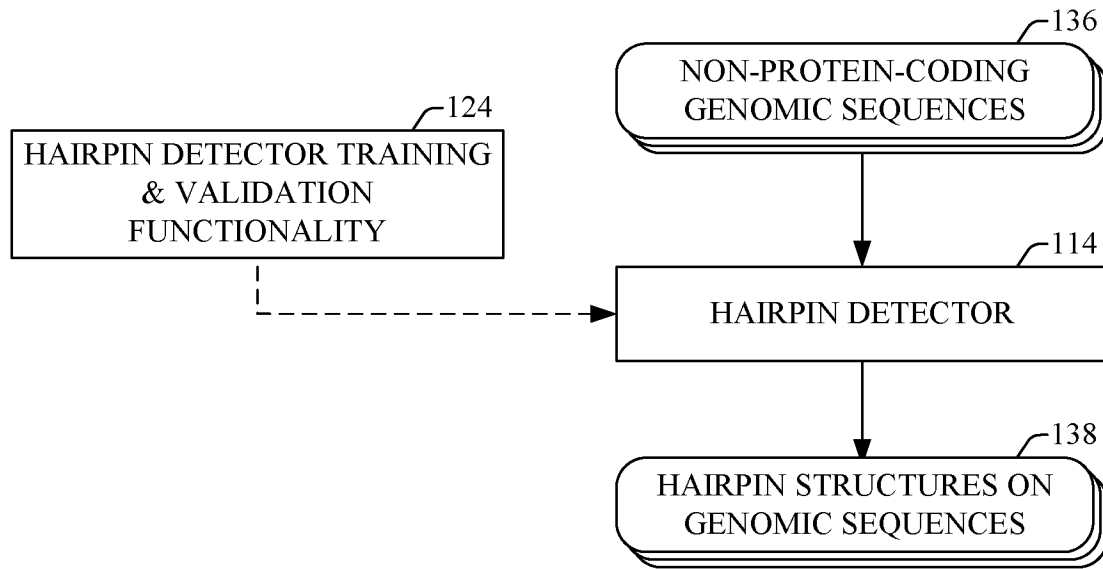
**FIG. 11A**



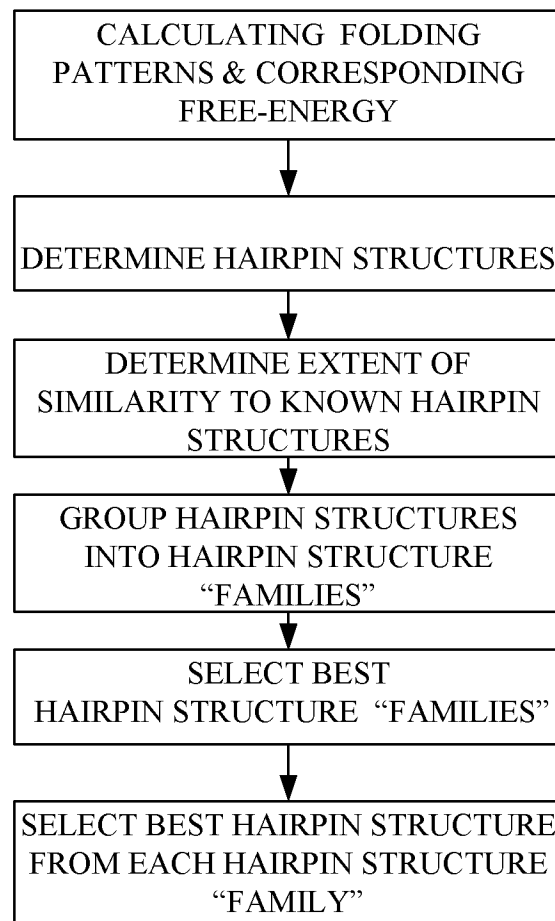
**FIG. 11B**



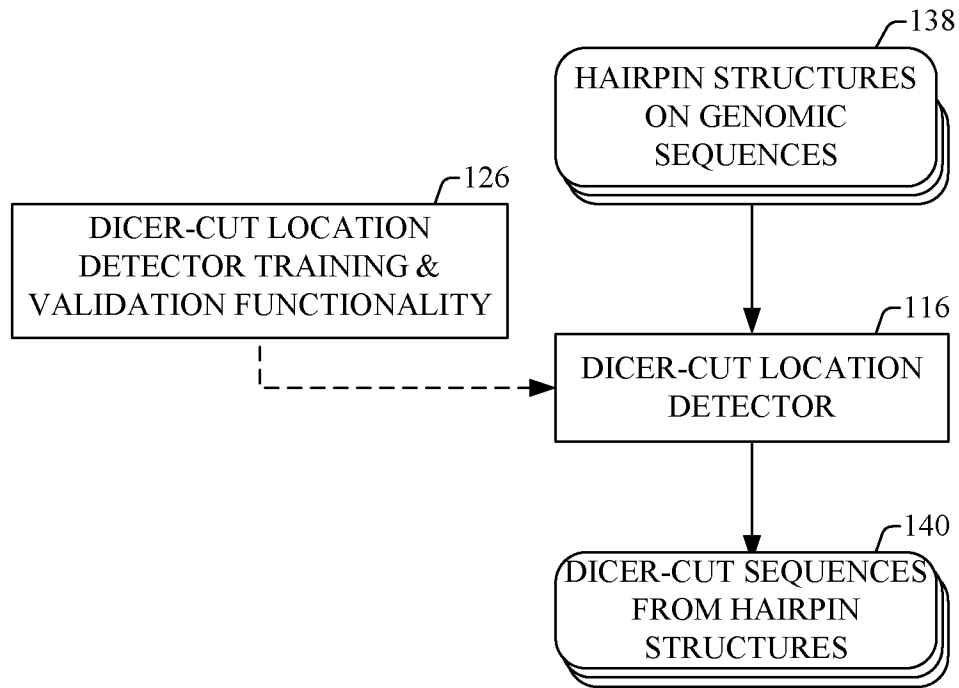
**FIG. 12A**



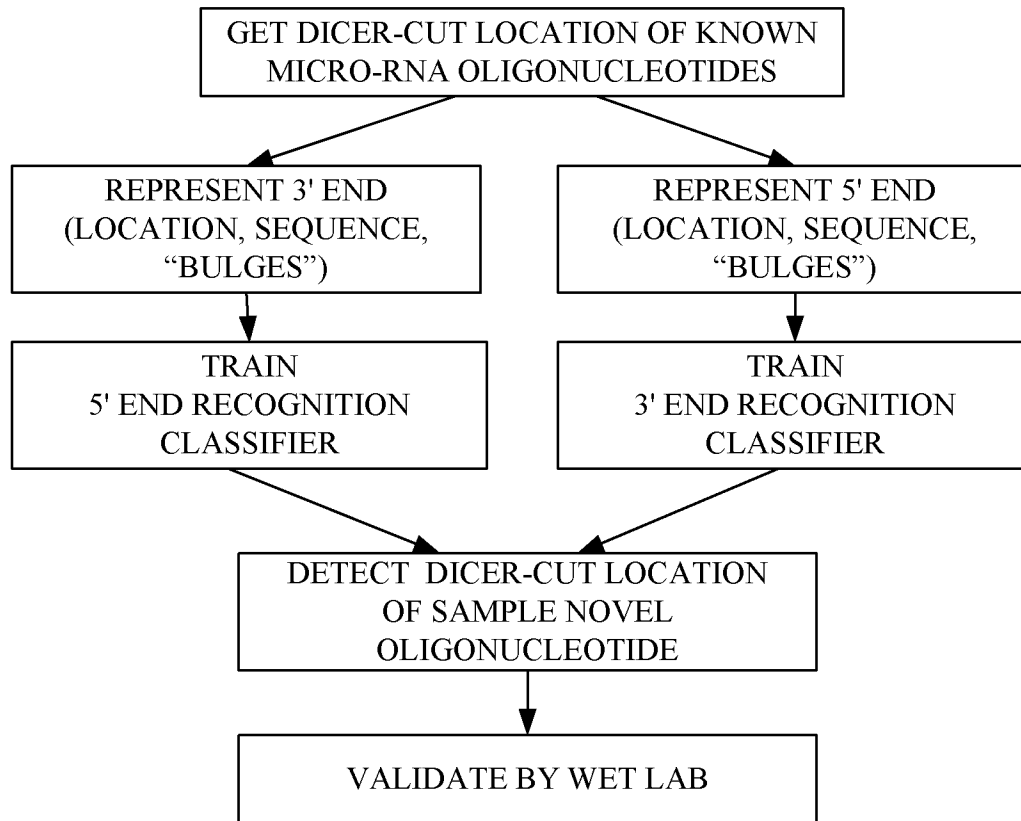
**FIG. 12B**



**FIG. 13A**

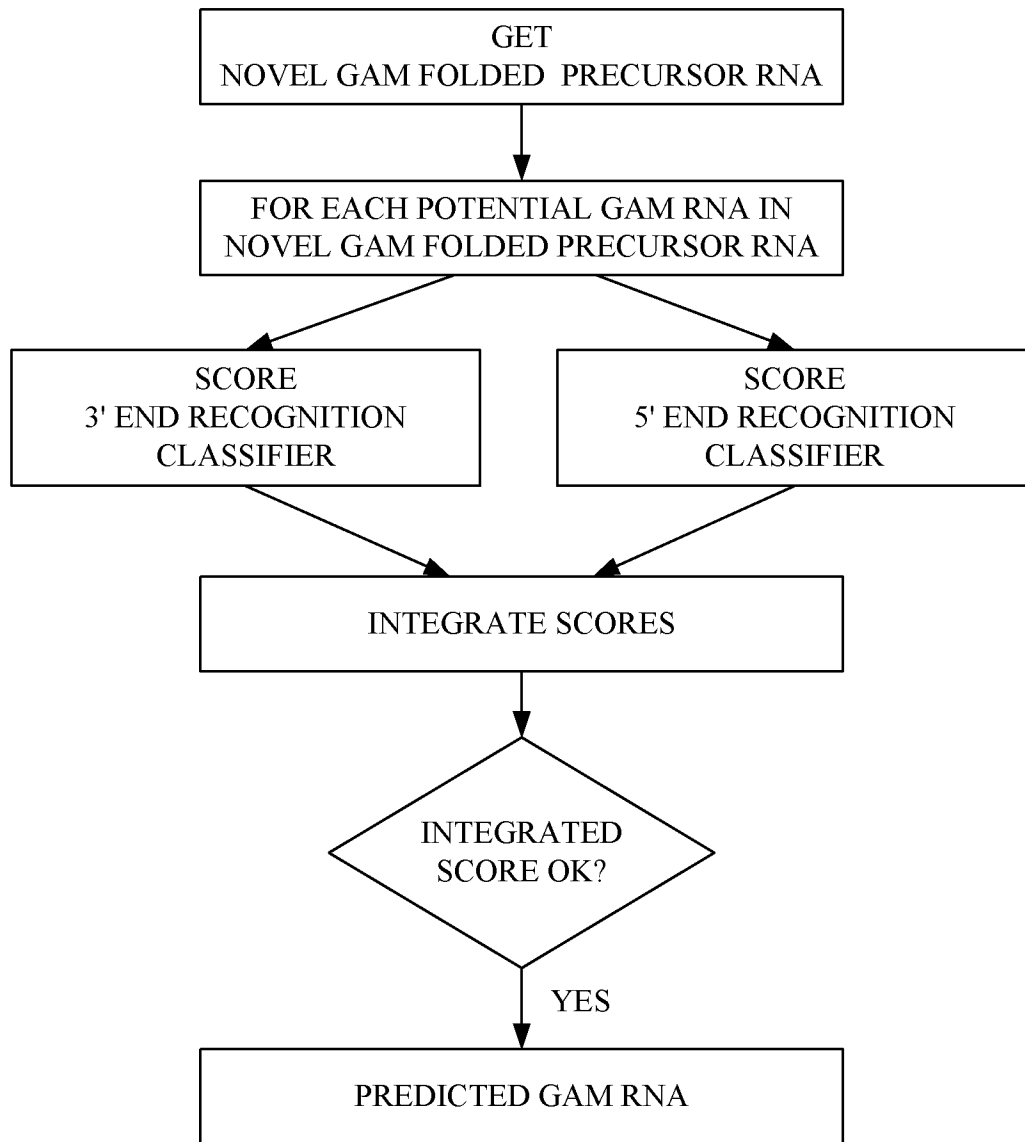


**FIG. 13B**

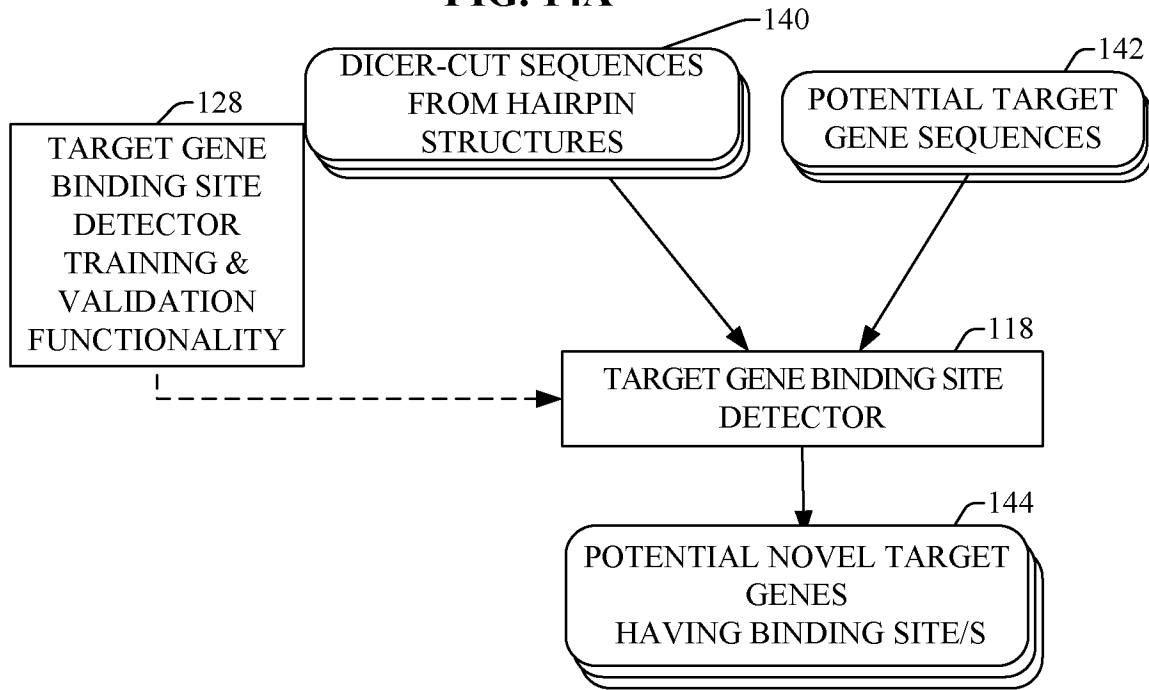




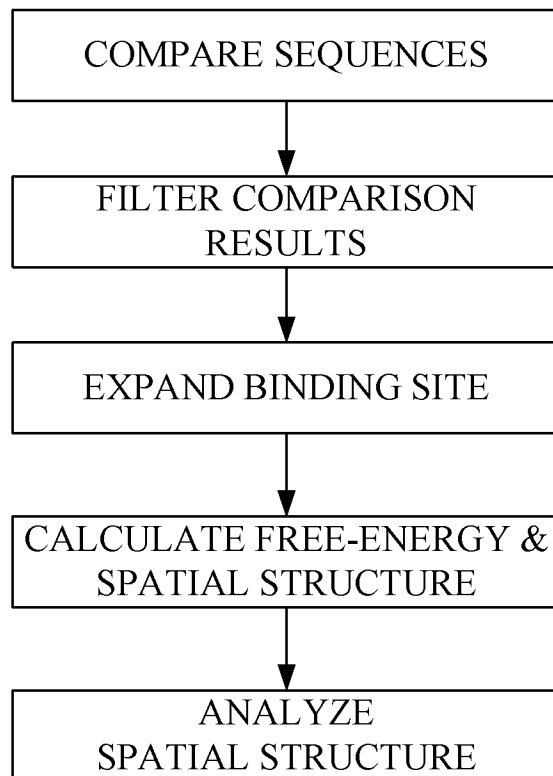
**FIG. 13C**



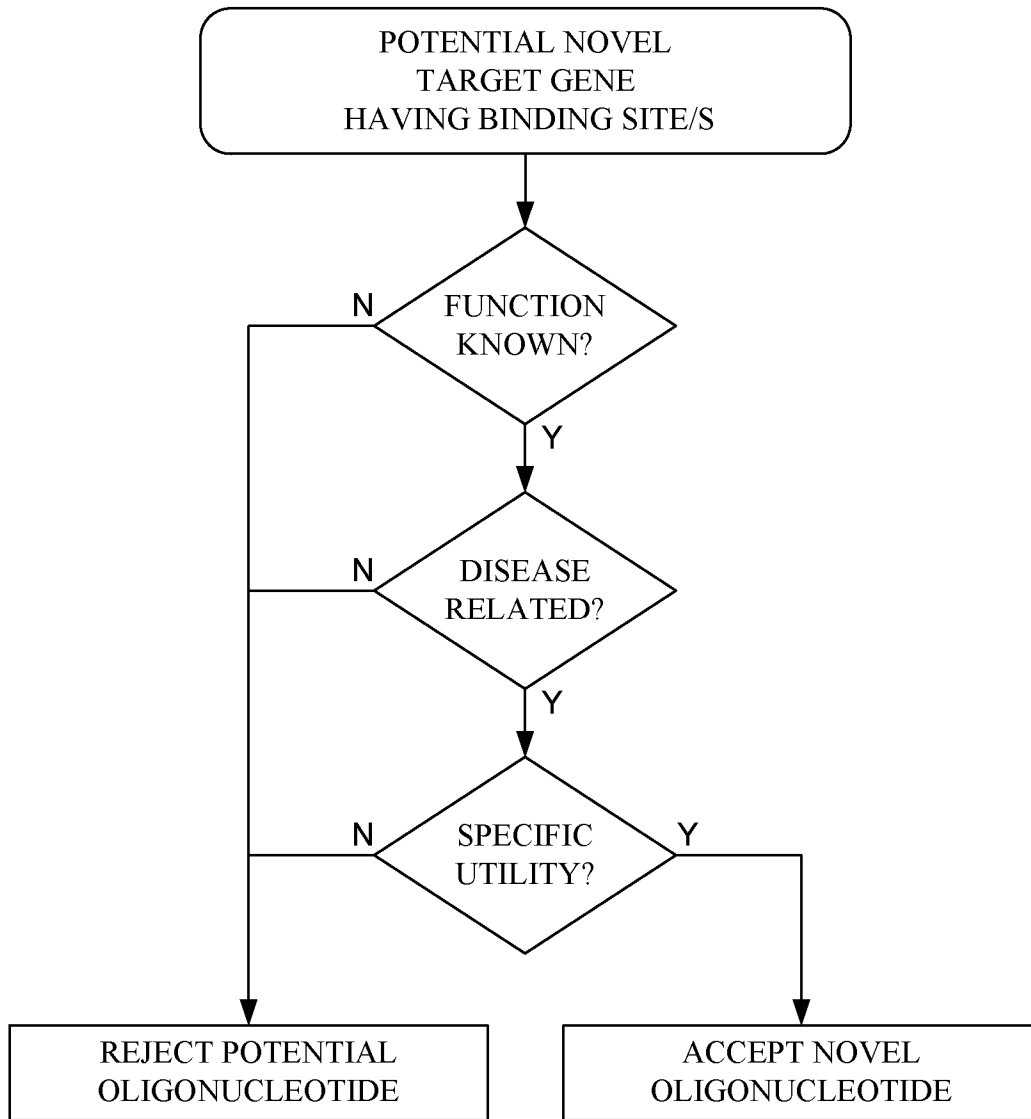
**FIG. 14A**



**FIG. 14B**



**FIG. 15**



**FIG. 16**

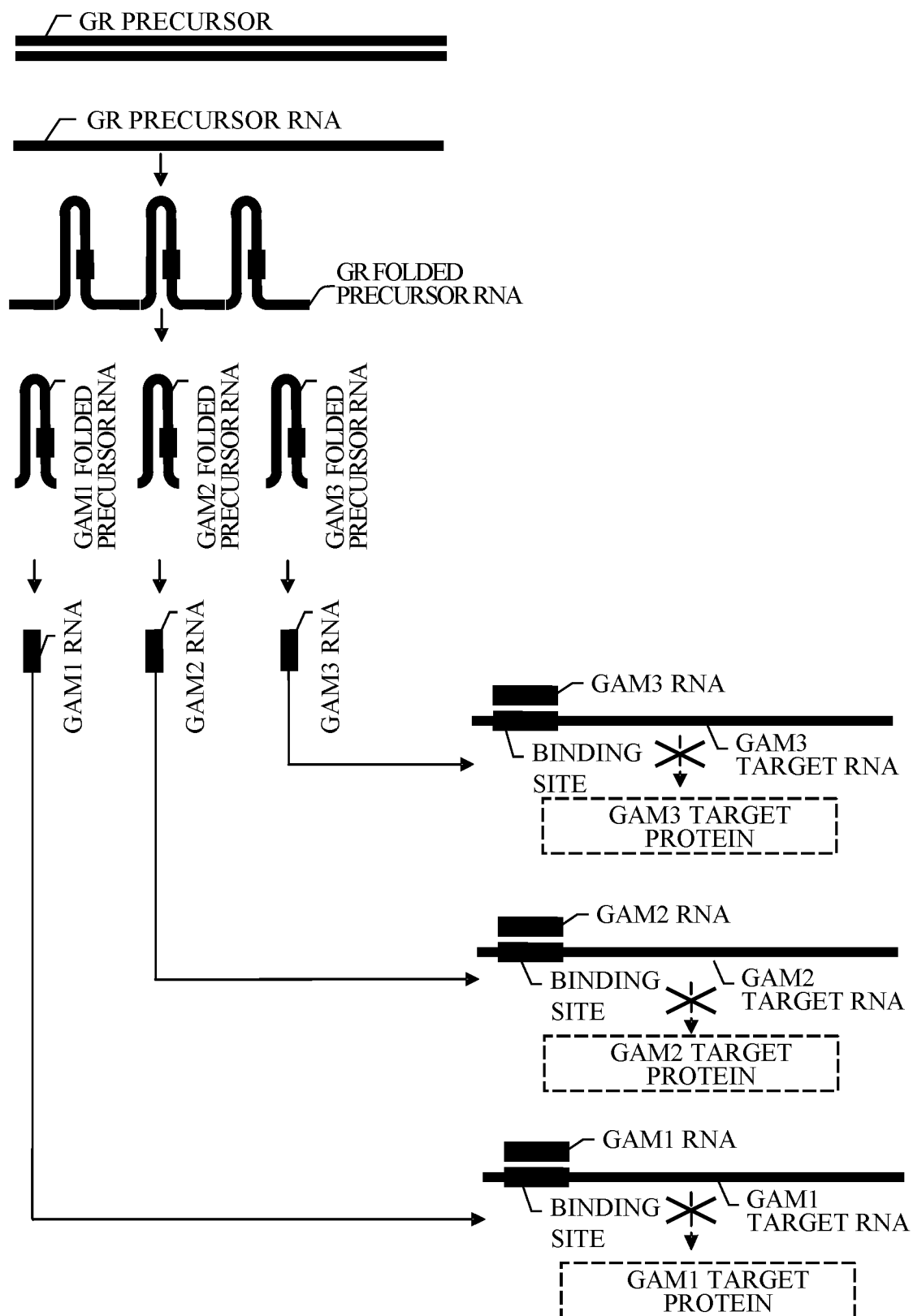
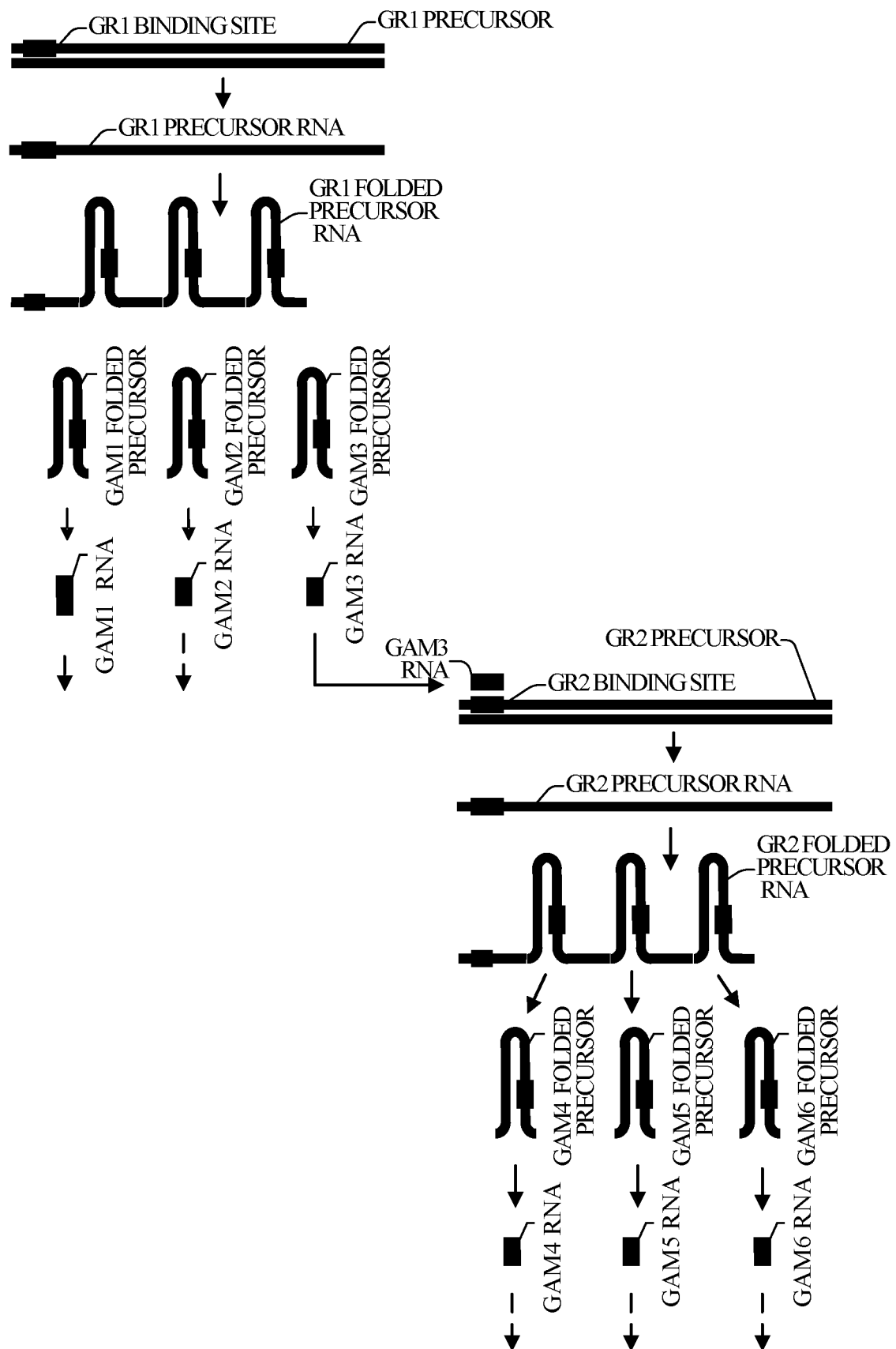
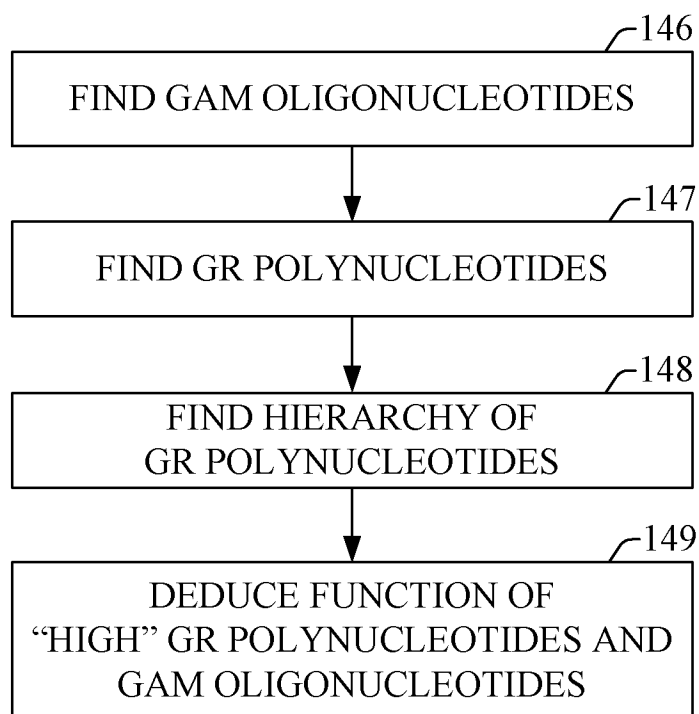


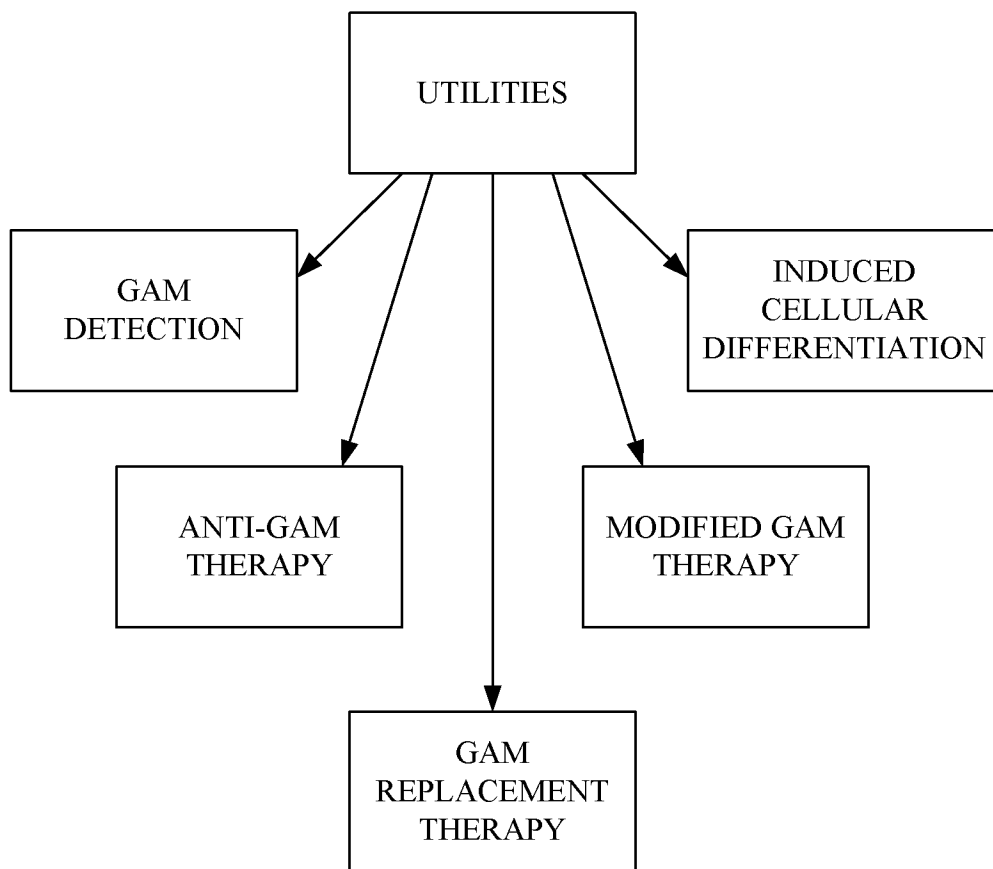
FIG. 17



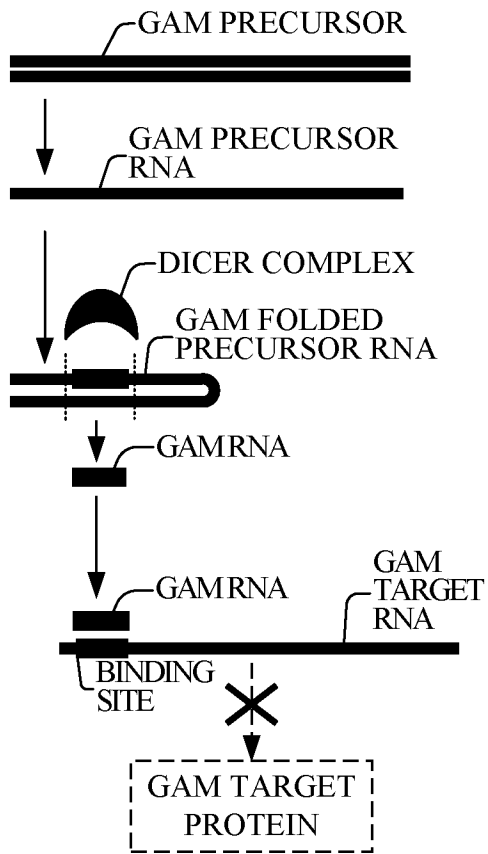
**FIG. 18**



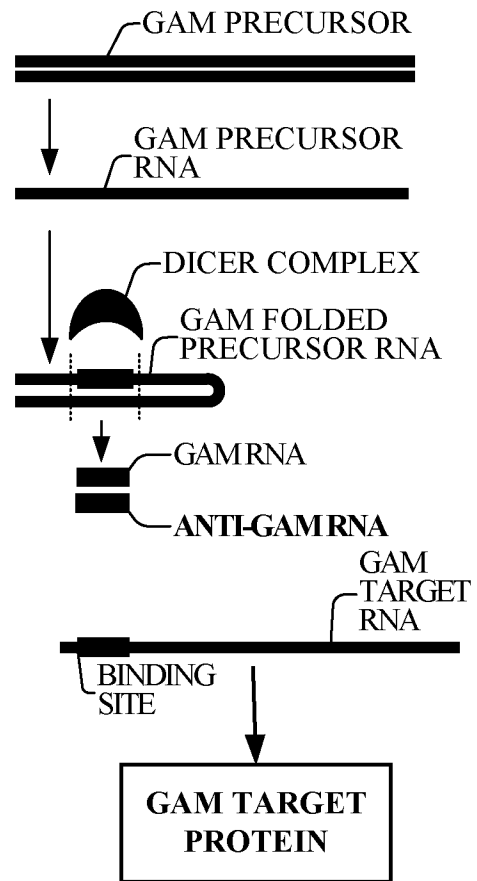
**FIG. 19**



**FIG. 20A**

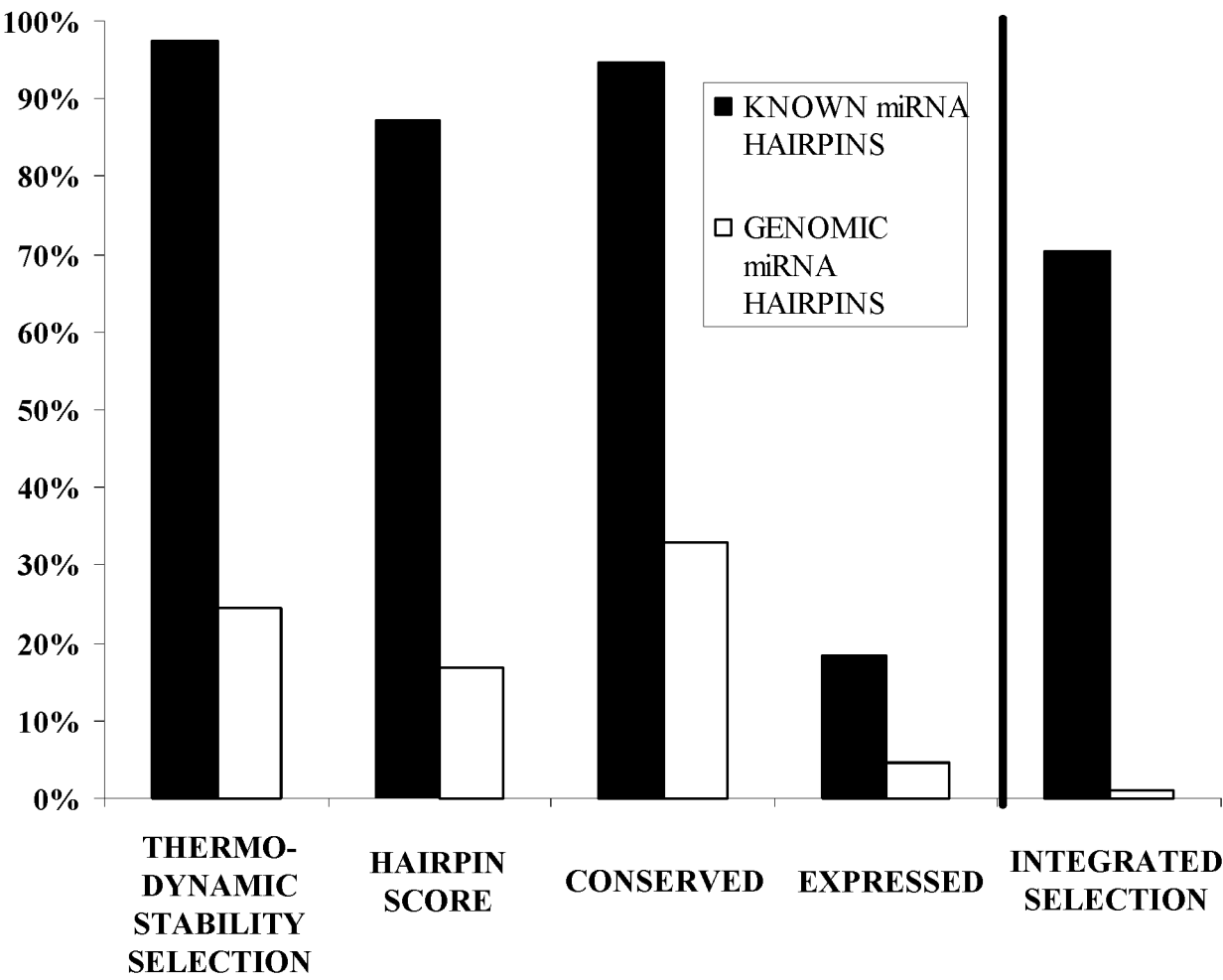


**FIG. 20B**

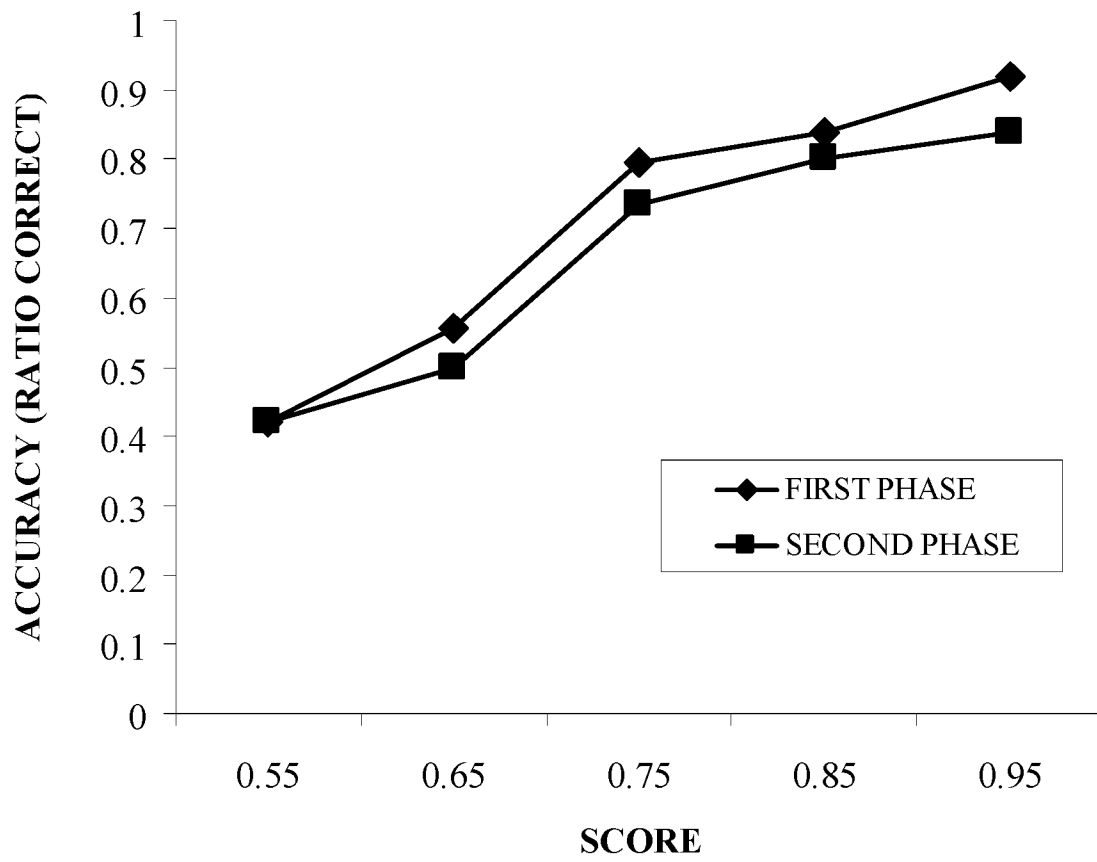




**FIG. 21A**



**FIG. 21B**



**FIG. 21C**

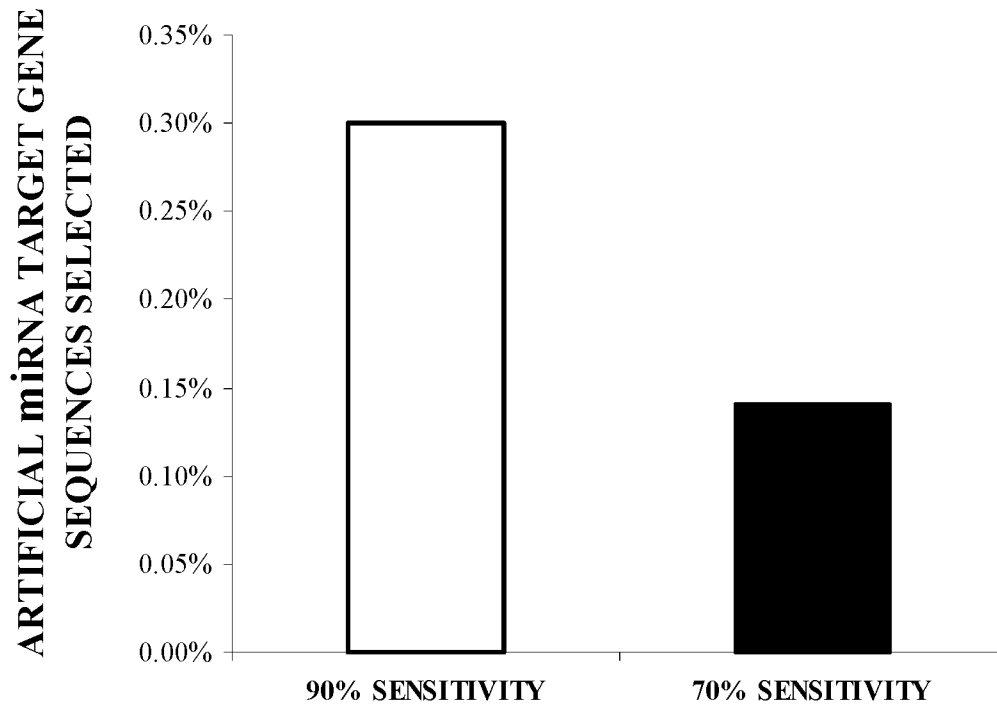


FIG. 22

ROW	PRIMER SEQUENCE	SEQUENCED SEQUENCE	PREDICTED GAM RNA	DIST- ANCE	GAM NAME
1*	AATTGCTTGAAC	CCAGGAAGTGA	AATTGCTTGAACCCAGGAAGTGA	0	25-A
2*	ACTGCACCTC	AGCCTGGGC	ACTGCACCTCAGCCTGGGCTAC	0	351661-A
3	CACCTGCACTC	CAGCCCGAGCAACA	CACCTGCACTCCAGCCCGAGCAA	0	351946-A
4	CTAGACTGAAG	CTCCTTGAGGAC	CTAGACTGAAGCTCCTTGAGGA	0	352759-A
5	GAAGTTTGAAG	CCTGTTGTTCA	GAAGTTTGAAGCCTGTTGTTCA	0	4426-A
6	TCACTGCAAC	CTCCACCA	(TCACTGCAACCTCCACCACGCTG),(TC ACTGCAACCTCCACCAGCCT)	0	(357950- A),(352721-A)
7*	TCTAAGAGAAAG	GAAGTTCAGA	TCTAAGAGAAAGGAAGTTCAGA	0	337950-A
8	GGGCAGTGGA	GCTGGAA	GGGCGTGAGGCTGGAATGATGT	1	351996-A
9	AATTGCTTGAAC	CCAAGAAAGTGA	AATCACTTGAACCCAAAGAAGTG	2	351874-A
10	AGCAGCCCA	GGGTTTGT	AGCAAGACCAGGGTTTGTGT	2	352083-A
11	AGGCAAGACG	GACCAGA	AGGCAGAGAGGACCAGAGACT	2	351944-A
12	AGGGAAGAAT	TAATGTGA	GGGAATAATTAATGTGAAGTC	2	353325-A
13	AGGGAAGAAT	TAATGTGAG	AGGAAAAAATAATGTGAGTC	2	352649-A
14	ATTCAAGTTG	CCCATGTTT	(ATTGTTGCCATGTTTATT), (TATTCAATTGCCATGTTGTGA)	2	A),(352967- A),(352960-A)
15	CTAGACTGAAG	CTCCTTGAGG	CTGGAAGTGAAGCTCCTTGAGGCC	2	352288-A
16	TTCAGAGTGGT	TAAGTTCTG	TTCGATGGTTAAGTTCTGTCA	2	353875-A
17	TTCAGAGTGGT	TAAGTTCTGC	TTCAAAGTGTTAAGTTCTGCTT	2	351940-A
18	AGCAGCCCA	GAAGGAAGC	AGGCCAAGAAGGAAGCAGAGG	3	352496-A
19	AGTTGCCCTG	TAAGAAAAAG	AGTTGTGTAAGAAAAAGC	3	352518-A
20	ATCAGAGGGTG	GGTGCTAA	ATTAGGAGAGTGGGTGCTAAGT	3	352511-A
21	ATGTTGGGAG	AGTTTGTCACT	TGGAGGAGAGTTTGTCACTATAG	3	353484-A
22	CCCAGGAAG	TGGAGCCTGGGC	CCCGGGTGGAAGCCTGGGCTGTG	3	351990-A
23	GGGCAGTGA	GGTCCGT	AGGGCAGGAGGTCCGTCCCTTC	3	353880-A
24	GGGCAGTGA	TCTAGAC	GTGACAGTGAATCTAGACAGAC	3	352810-A
25	TCAAGCTCATTC	CACTAAA	CTCAGCTCATCCACTAAATCCC	3	353184-A
26	TGGAAGAATT	GGTGTATGTT	GGAATGGTGGTTGTATGTTG	3	353855-A
27	TGGAGAGTT	CCATATTTTG	TGATAGATCCATATTTTGGTAA	3	352004-A
28	TGGAGAGTT	GTTGTACAGT	TGGGTTTTGTTGTACAGTGTA	3	353160-A
29	TCACTGCAAC	CTCCACC	TCACTGCAACCTCCACCCTCCG	0	353856-A

FIG. 23A



FIG. 23B

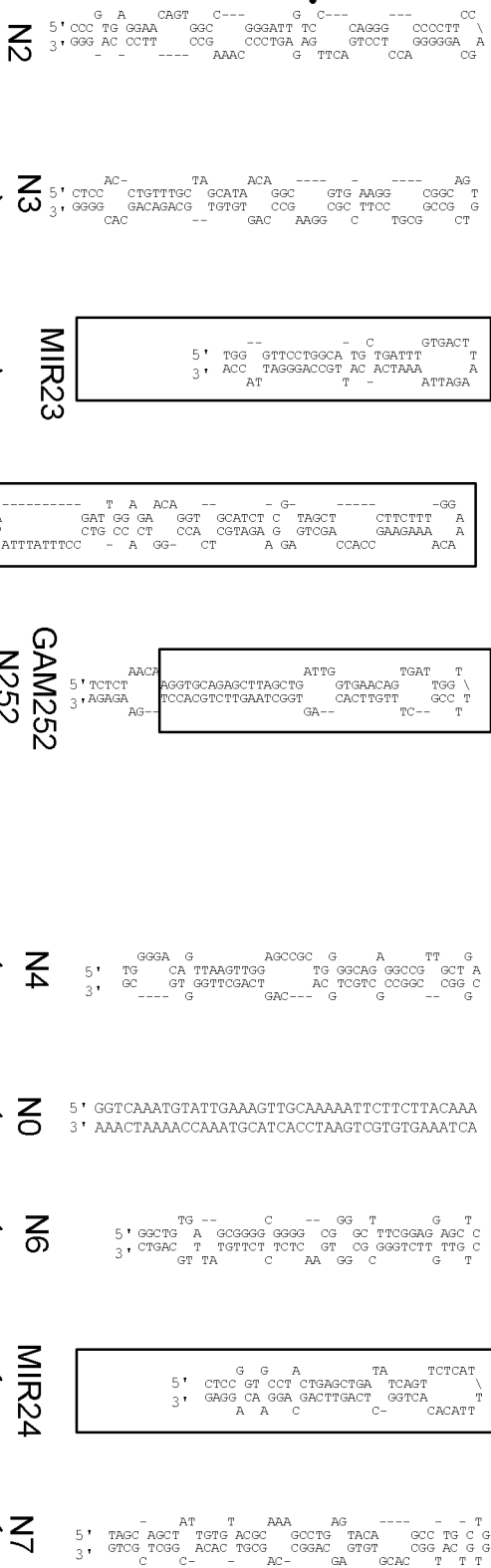


FIG. 23C

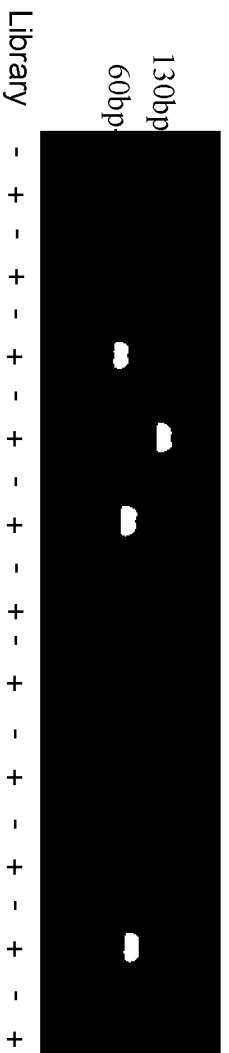




FIG. 24C

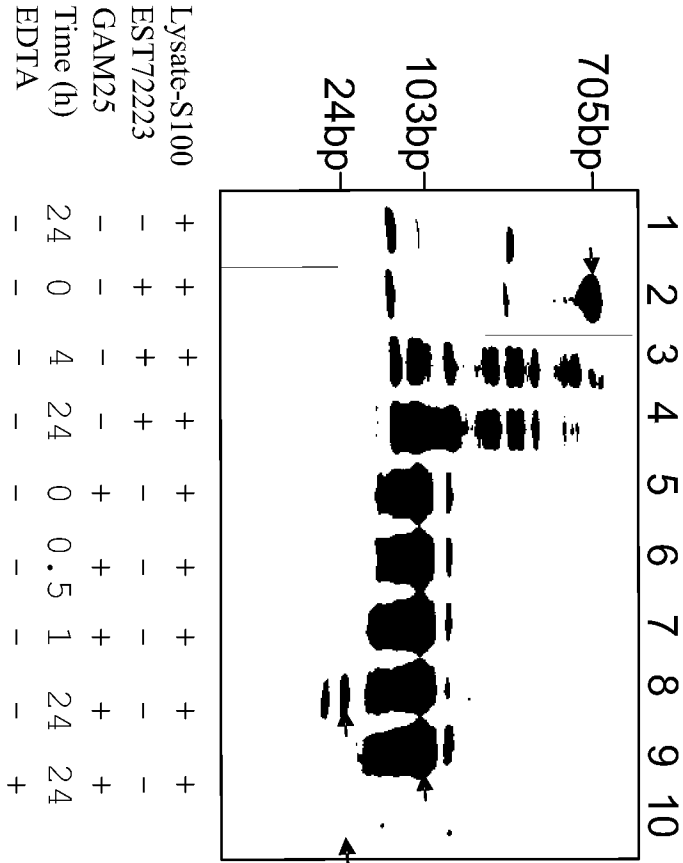
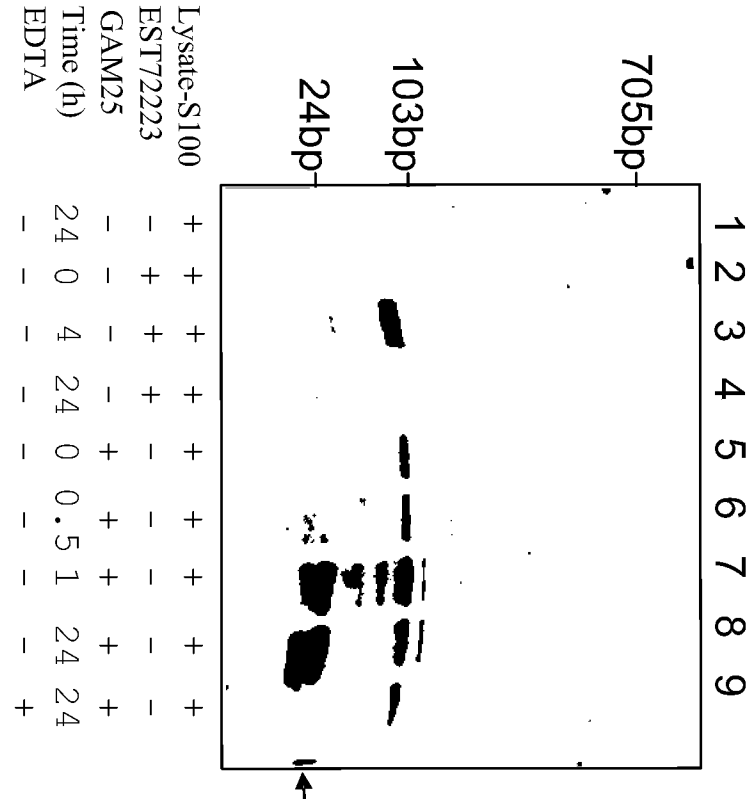
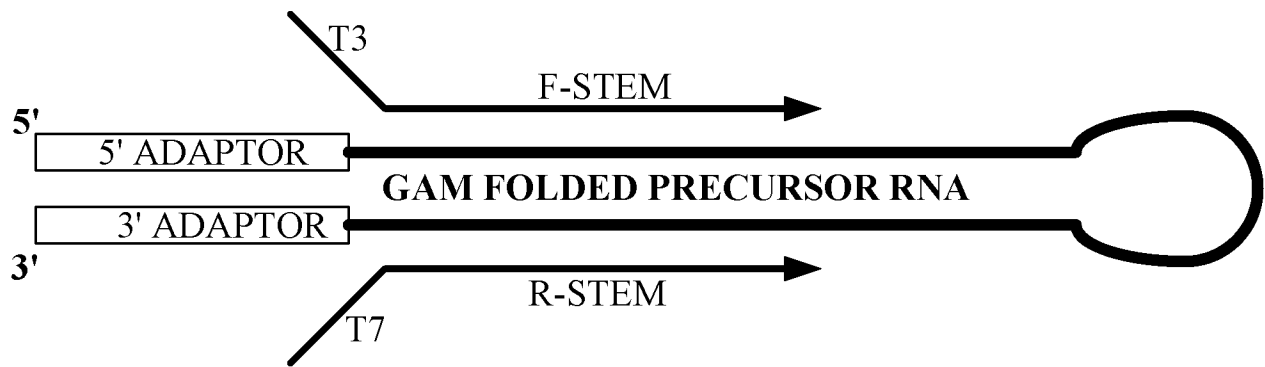


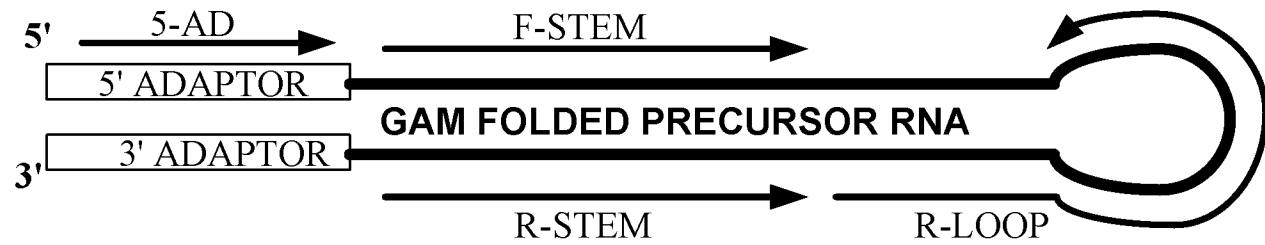
FIG. 24D



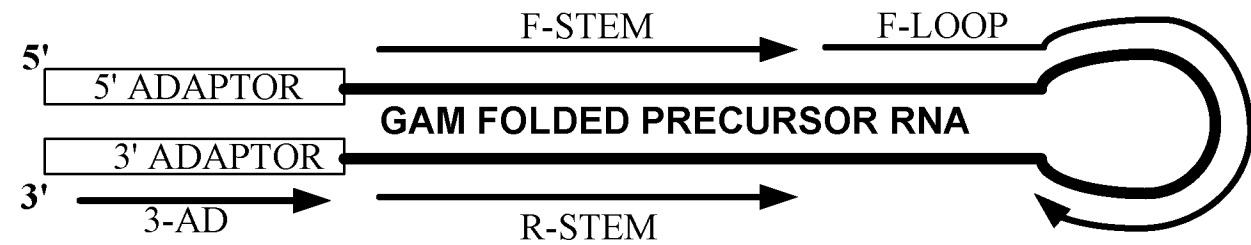
**FIG. 25A**



**FIG. 25B**



**FIG. 25C**

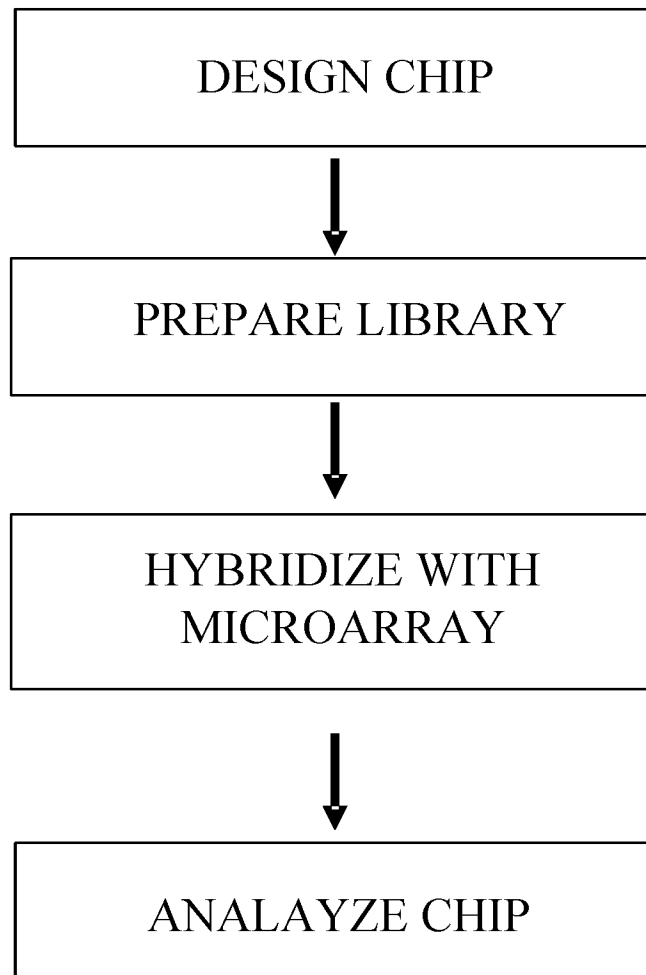




**FIG. 25D**

PRE #	PREDICTED PRECURSOR SEQUENCE	PRIMER1 TYPE/NAME	PRIMER1 SEQUENCE	PRIMER2 TYPE/NAME	PRIMER2 SEQUENCE	METHOD	OBSERVED SEQUENCE	GAM NAME
1	AATGCTGAGTCCT GTGAGTCTTCCTA GCAAATCAAATCT GGAAGGGGTCCTG AGGACTCCAGCAT	F STEM 1 3	GAGTCCTG TGAGTCTT CCTAGC	R STEM 1 3	TGCTGGAGT CCTCAAGA CC	A		
2	TGAGCCCTCAGCC CTCATGGCTTTC CGATGCTCACC GG TGCAGAGGAGCC AGCTGGGGAGCCT	R LOOP 2 1	AAAGCCAT GAGGGCTG AGG	R STEM 2 1	GTGAGCAT CGGGAAAG CCA	B		
3	ACTGTTGGTCTTC TGTTTAGCCAITTA TTCTCAGTTCTGT GCAGGAGTGAGCT GAAACAAAGTTGT ATAGCCCCAGAGA GTGAGAAGCTGCA TTTCATGTCTCCC AACACGT	F STEM 3 3	TTCTCAGT TCGTGCA GGAGTG	R STEM 3 3	CTTCTCACT CTCTGGGC TATAC	A		

**FIG. 26A**



**FIG. 26B**

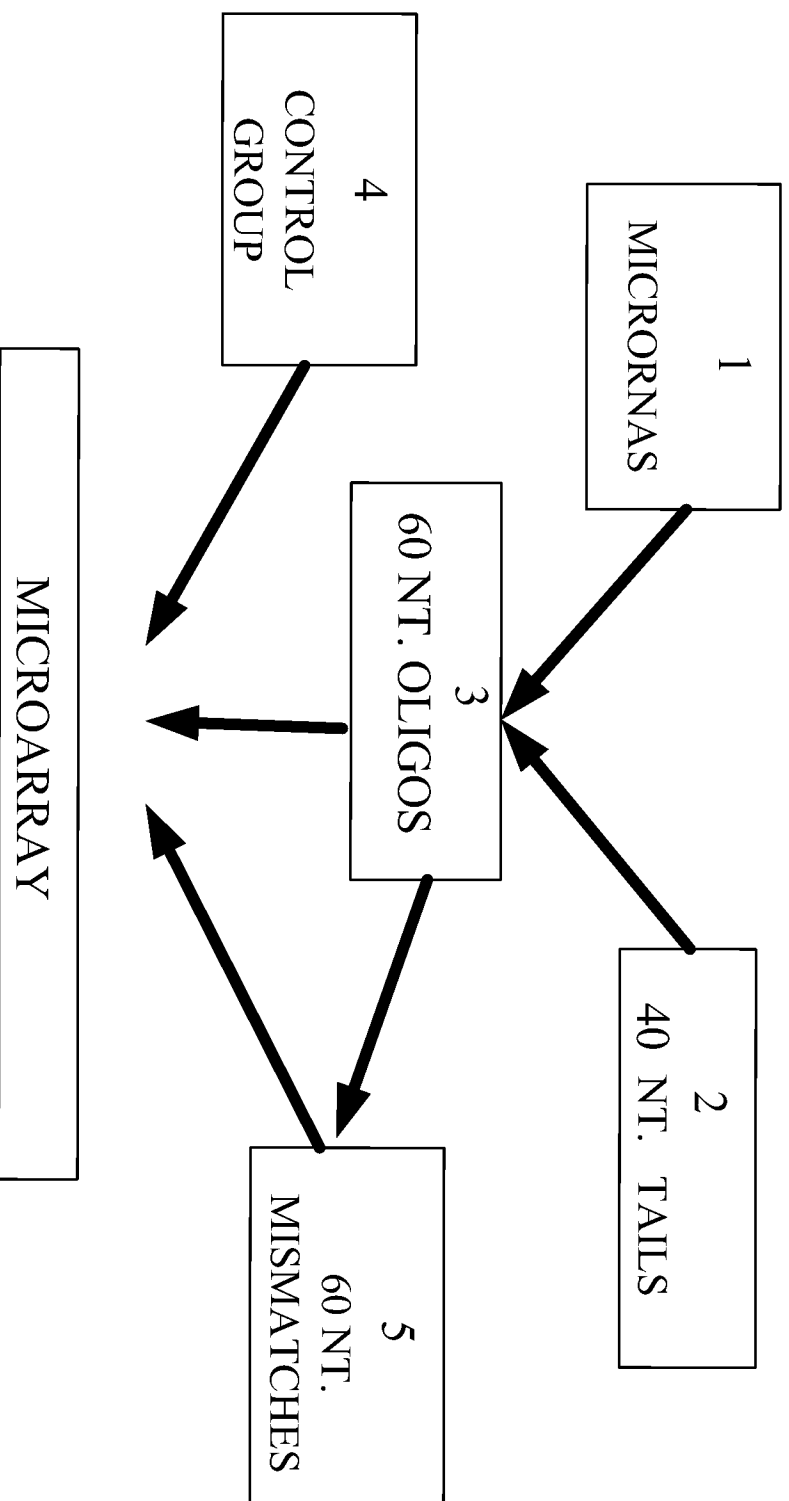
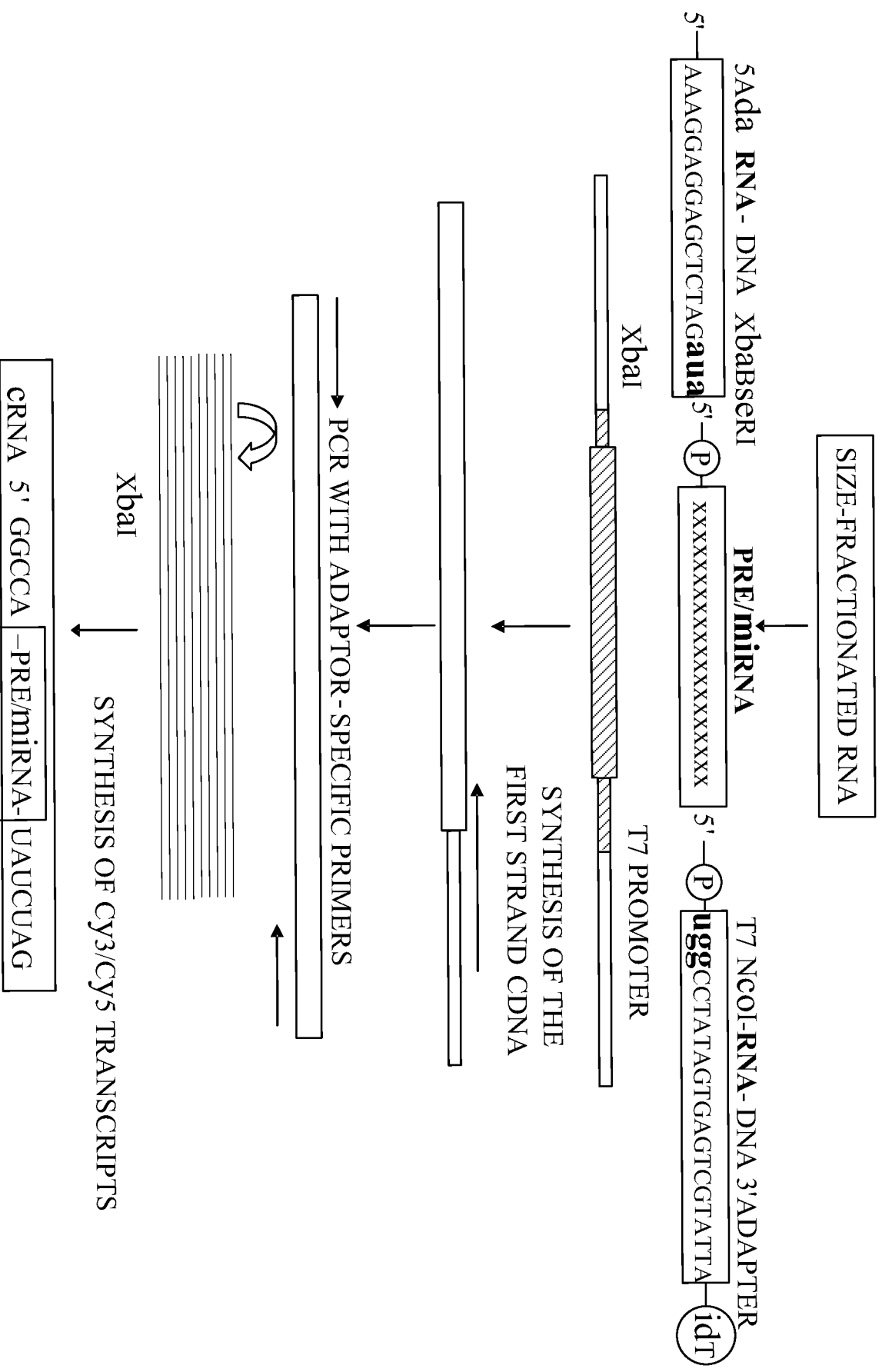
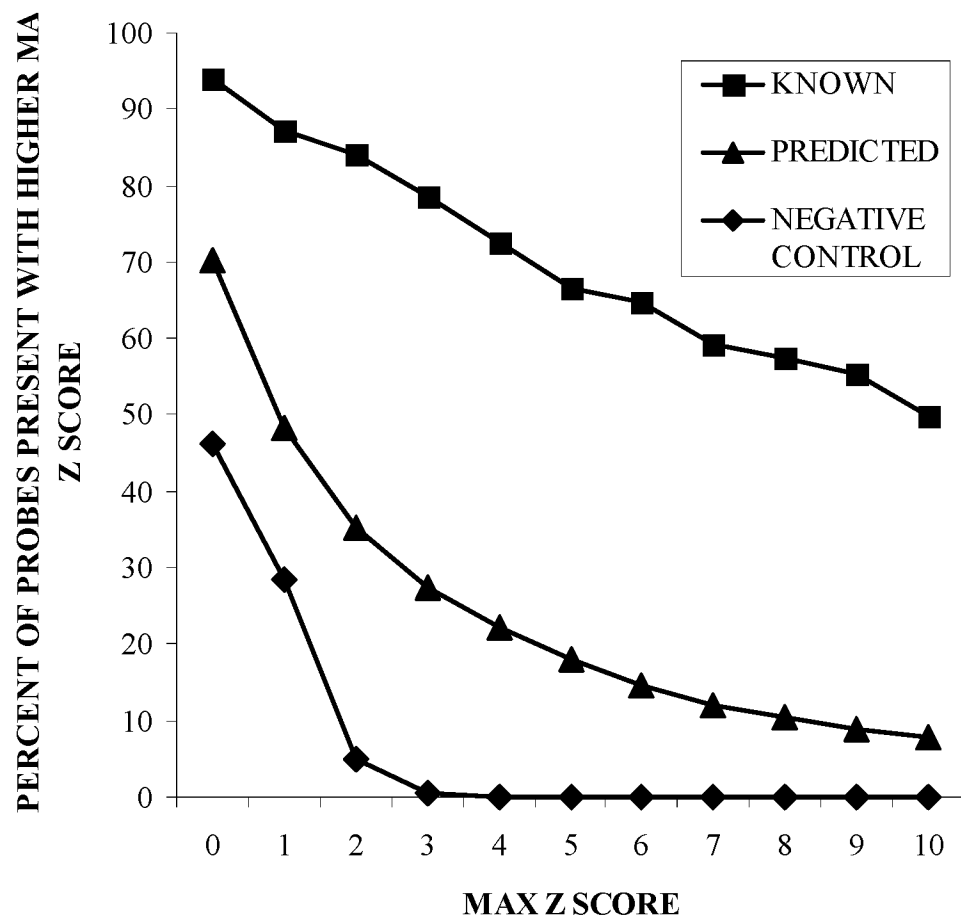


FIG. 26C



**FIG. 27A**



**FIG. 27B**

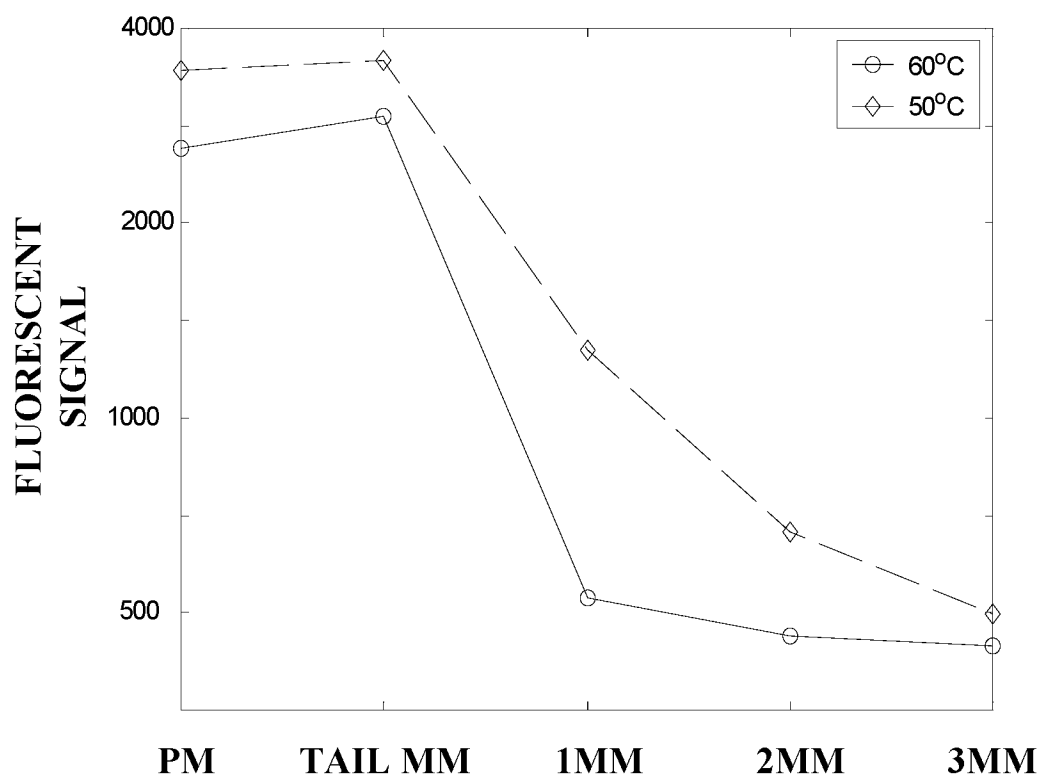
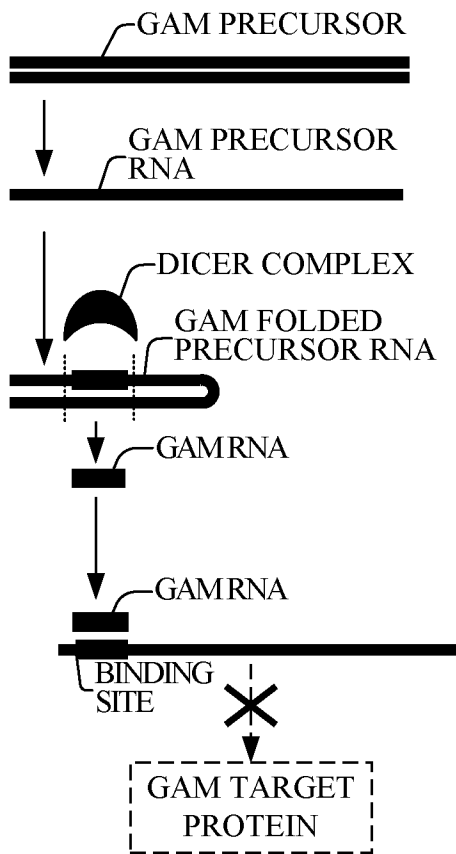


FIG. 27C

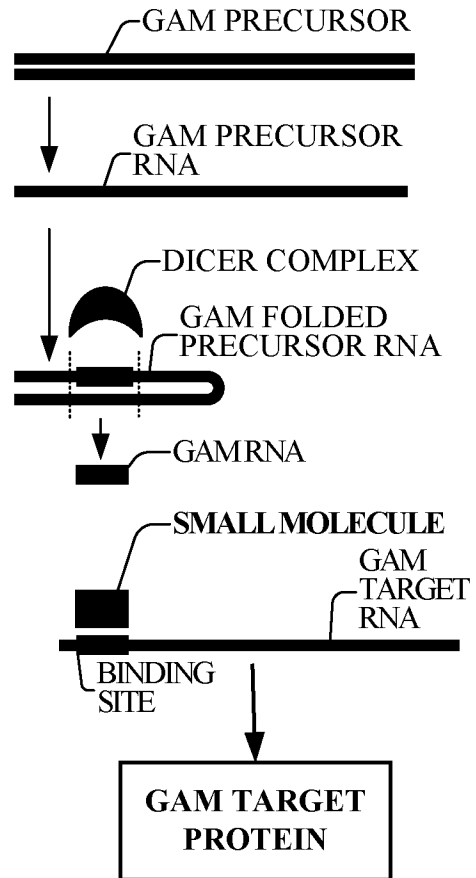
MIRNA NAME	HELA	BRAIN	LIVER	THYMUS	TESTES	PLACENTA	REFERENCE
HSA-MIR-124A	1879	<b>65517</b>	7025	3099	2672	2498	1,3
HSA-MIR-9	642	<b>42659</b>	3504	4455	4485	2313	2,3
HSA-MIR-128A	2015	<b>27701</b>	4940	4876	5166	2495	3
HSA-MIR-129	503	<b>22573</b>	1175	2213	5364	2017	3
HSA-MIR-128B	1168	<b>21969</b>	3954	4819	5383	2027	
HSA-MIR-122A	1051	447	<b>65518</b>	2644	617	570	1,3
HSA-MIR-194	501	910	<b>65518</b>	4737	2342	7952	3
HSA-MIR-148	413	620	<b>38436</b>	5250	6204	2711	
HSA-MIR-192	452	606	<b>20650</b>	1628	1263	2607	
HSA-MIR-96	887	3100	1477	<b>44800</b>	2266	5466	
HSA-MIR-150	648	1463	5295	<b>65518</b>	<b>29728</b>	5280	
HSA-MIR-205	551	615	1646	<b>65518</b>	2645	<b>39072</b>	
HSA-MIR-182	662	1944	1091	<b>25771</b>	2034	3683	
HSA-MIR-183	1026	1123	1286	<b>8754</b>	1681	2138	
HSA-MIR-204	525	3898	1757	6535	<b>64859</b>	6233	
HSA-MIR-10B	410	433	477	3871	<b>23083</b>	738	
HSA-MIR-154	438	733	1914	3309	<b>14750</b>	9637	
HSA-MIR-134	448	617	698	763	<b>2250</b>	997	
HSA-MIR-224	3233	11061	7684	<b>32305</b>	5377	<b>65518</b>	
HSA-MIR-210	844	2280	10703	6864	15288	<b>62452</b>	
HSA-MIR-221	625	9325	3520	<b>20212</b>	10608	<b>54287</b>	
HSA-MIR-141	696	805	1220	4063	2000	<b>46845</b>	
HSA-MIR-23A	1312	3492	2990	6021	11173	<b>40076</b>	
HSA-MIR-200C	556	595	1027	10636	1478	<b>33532</b>	
HSA-MIR-136	465	725	709	776	3100	<b>8840</b>	

1 LAGOS-QUINTANA ET AL., CURRENT BIOLOGY 12:735 (2002)  
2 KRICHEVSKY ET AL., RNA 9:1274 (2003)  
3 SEMPERE ET AL., GENOME BIOLOGY 5:R13 (2004)

**FIG. 28A**

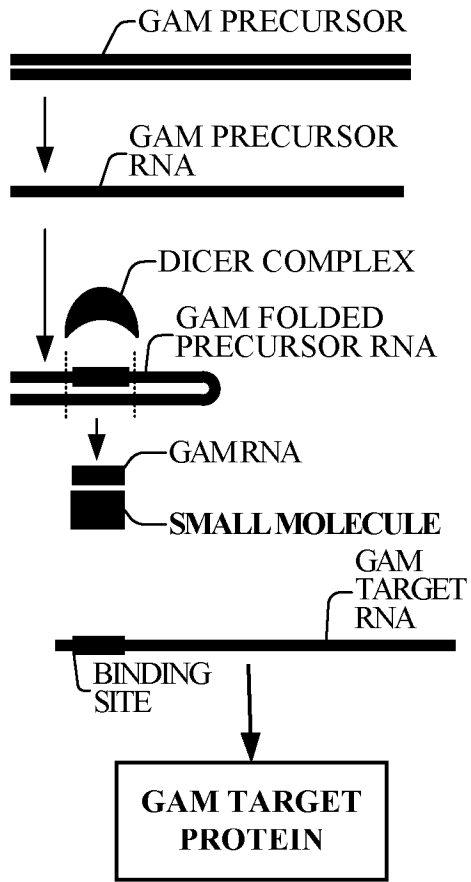


**FIG. 28B**

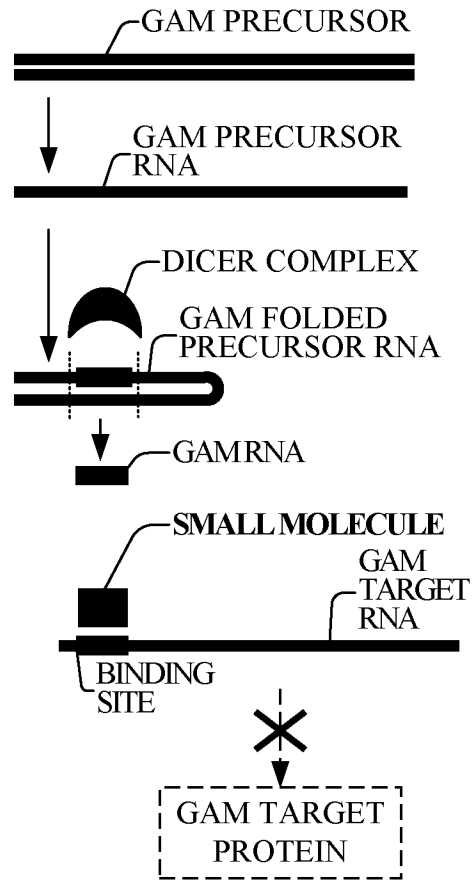




**FIG. 28C**



**FIG. 28D**



**FIG. 29**

